

Qy	181	AGSGGCGAACCCATCCCAGGGCGGCCGACCGAGGGCAGGTCCTGGGTCTAGAGCCCGGG	240
Db	419	AGSGCGCAACCTATTTCCTCCAAAGAGAGCGCCGACCCGAGGGCAGGTCCTGGCGCGAGCCCGGG	478
Qy	241	TACCCCTTGGCCCCCTATATGGGAATCAGGGCTCGCGGGTGGGCAGGGTGCTCTGTGCCCG	300
Db	479	TACCCCTTGGCCCCCTCATGTGAACAGAGGGCTCGCGGTGGGCAGGTNGGCTCTGTCCCT	538
Qy	301	CGGGGCTCTCGCCGTCGTGGGGGCCCAATGACGCCCGGCGCAGG	345
Db	539	CGGGCTCCCGTCTTAGTTGGGGTCTTACTGACCCCGGGGTAGG	583

RESULT 4
US-09-878-281A-165
US-09-878-281A-165
Sequence 165, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 165
LENGTH: 499
TYPE: DNA
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: misc feature
LOCATION: (306)..(306)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (313)..(313)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (340)..(340)
OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-165

RESULT 5
 US-08-290-665A-136
 ; Sequence 136, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-8849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 136:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: S52
 US-08-290-665A-136

Qy	1	ATGAGCACACTCTCTTAAACCAACAAGAAAAACCAAAAAGAAACACCAACACCTCCGGCCACAG	60
Db	1	ATGAGCACGAATCCTAAACCTTCAAGAAGAAACCAAAACGTAACCAACCGCGCCCTATG	60
Qy	61	GACGTTAAGTTCCACAGGGGGCGGTACAGATCGTTGGTGGAGTTTACGTCTACCAACGCAGG	120
Db	61	GACGTTAAGTTCCACAGCGGGTGGTCAGATCGTTGGCGGAGTTTACTTTGTGTGCGCGCAGG	120
Qy	121	GGCCCCCAGTTTGGTGTGCGTGCAGTGCAGCAAGACTTTCGAGCGGTGCGAACCTTCGCGAGT	180
Db	121	GGCCCCCAGTTTGGTGTGCGCGCGACTTCGGAAGACTTCGAGAGCGGTGCGAACCTTCGTGGG	180
Qy	181	AGCGCCCAACCCATCTCCACAGGGCGCGCAACCCAGAGGCAGGTCTCTGGGCTCAGCCCGGG	240
Db	181	AGCGCCCAACCTATCTCCCNAGGCGCGCGCAACCCAGAGGCAGATCTCTGGGCGCAGCCCGGG	240
Qy	241	TACCCCTTGGCCCCCTATATGGAATGAGGGCTCGCGGTGGGCAGAGGTGGCTCTCTGTCCCGG	300
Db	241	TATCCTTTGGCCCCCTTTACGGCAATGAGGGCTGTGGGTGGGCAGAGGTGGCTCTCTGTCCCGT	300
Qy	301	CGGGGCTCTCGCCCGTCTGTGGGGGCCAAAATGACCCCGCGCCAG	344
Db	301	CGGGGNTCTCGNGCGTCTTGGGGCCCCAAATGATCCCGGNGGAG	344

Db 301 CGCGCTCCCGTCCATCTTGGGGCCCAACGACCCCGCGGAGG 345

RESULT 6

US-09-194-949A-5
; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 78.4%; Score 270.4; DB 3; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.2e-64;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCAACCGCGGCACAG 60
Db 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAACCAACCTTAAACCAACCGCGGCACAG 60
QY 61 GACGTTAAGTTCCACAGCGCGGTGATCGTTGGTGAGTTACGTCTACCGCAGG 120
Db 61 GACGTTAAGTTCCCGCGCGGTGATCGTTGGTGAGTTACGTCTACCGCAGG 120
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGAGCGGTCCGACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGAGCGGTCCGACCTCGTGGGA 180
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGCGGTCTCTGGGCTCAGCCCGG 240
Db 181 AGCGCAGCCTATCCCCAAGGCTCGCGCGCGAGGTCCTGGGCTCAGCCCGG 240
QY 241 TACCCCTGCGCCCTATATGGAATAGAGGCTCGCGGTGCGGAGGTGCTCTGTCCCG 300
Db 241 TACCCCTGCGCCCTATATGGAATAGAGGCTTCGCGGTGCGGAGGTGCTCTGTCCCG 300
QY 301 CGCGGCTCTCGCGCTCTGTTGGGGCCCAATGACCCCGCGCGAGG 345
Db 301 CGCGGCTCTCGCGCTCTGTTGGGGCCCACTGACCCCGCGGTAGG 345

RESULT 7

PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homopapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 78.4%; Score 270.4; DB 6; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.2e-64;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCAACCGCGGCACAG 60
Db 1 ATGAGCACACTTCTTAAACCTCAAGAAAAACCAAGAAAAACCAACCAACCGCGGCACAG 60
QY 61 GACGTTAAGTTCCACAGCGCGGTGATCGTTGGTGAGTTACGTCTACCGCAGG 120
Db 61 GACGTTAAGTTCCCGCGGTGCGGAGCAGATCGTTGGTGAGTTACGTCTGCGCGCAGG 120
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGAGCGGTCCGACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGAGCGGTCCGACCTCGTGGGA 180
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGCGGTCTCTGGGCTCAGCCCGG 240
Db 181 CGACGACAGCCTATCCCCAAGGCGGTTCGAGCGCGGTTCGCGGCTCAGCCCGG 240
QY 241 TACCCCTGCGCCCTATATGGAATAGAGGCTCGCGGTGCGGAGGTGCTCTGTCCCG 300
Db 241 TACCCCTGCGCCCTCTATGGTAATAGAGGCTGCGGCTGGGCGAGGTGCTCTGTCCCA 300
QY 301 CGCGGCTCTCGCGCTCTGTTGGGGCCCAATGACCCCGCGCGAGG 345
Db 301 CGCGGCTCTCGCGCTCTTGGGGCCCAACGACCCCGCGCGAGG 345

RESULT 8

US-08-157-235-4
; Sequence 4, Application US/08157235
; Patent No. 5550016
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
; STREET: 1850 M Street N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY:
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/157,235
; FILING DATE: 24-NOV-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 354370/92
; FILING DATE: 27-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert G. Weillacher
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-49206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: 64470
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 803 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-157-235-4

Query Match 77.9%; Score 268.8; DB 2; Length 803;
Best Local Similarity 86.1%; Pred. No. 3.5e-64;
Matches 297; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCAACCCCGGCACAG 60
DB 298 ATGAGCACACTTCCTAAACCTCAAGAAAAACCAAAAGAAACCAACATCGTCGCCACAG 357
QY 61 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 120
DB 358 GACGTCGAAGTTCCCGGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGGCAGG 417
QY 121 GCGCCCCAGTTGGGTGCGTGCAGTTCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 180
DB 418 GCGCCACAGATTGGGTGTCGCGGACGCTGAAACTTCTGAACGGTCAACAGCTCGCGGA 477
QY 181 AGCGCGCAACCCATCCCAAGGGCGCGCAACCGAGGGCAGGTCTCTGGGCTCAGCCCGGG 240
DB 478 CGACGACAGCTTATCCCAAGCGGTGCGAGCGAGGCGGTCTCTGGGCTCAGCCCGGG 537
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGGCTCGCGGTGGGCGAGGTGGCTCTGTCCCG 300
DB 538 TACCCCTTGGCCCTCTATGGTAAACGAGGGCTCGCGGTGGGCGAGGTGGCTCTGTCCCG 597
QY 301 CGCGGCTCTCGCCCGTCTGGGGGCCCAATGACCCCGCGCAGG 345
DB 598 CGCGGCTCTCGGTCATCTATGGGGGCCCAATGACCCCGCGGAGG 642

RESULT 9
US-08-157-235-5
; Sequence 5, Application US/08157235
; Patent No. 5550016
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
; STREET: 1850 M Street N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY:
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/157,235
; FILING DATE: 24-NOV-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 354370/92
; FILING DATE: 27-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert G. Weillacher
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-49206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: 64470
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 803 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-157-235-5

Query Match 77.9%; Score 268.8; DB 2; Length 803;
Best Local Similarity 86.1%; Pred. No. 3.5e-64;
Matches 297; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCAACCCCGGCACAG 60
DB 298 ATGAGCACACTTCCTAAACCTCAAGAAAAACCAAAAGAAACCAACATCGTCGCCACAG 357
QY 61 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 120
DB 358 GACGTCGAAGTTCCCGGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGGCAGG 417
QY 121 GCGCCCCAGTTGGGTGCGTGCAGTTCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 180
DB 418 GCGCCACAGATTGGGTGTCGCGGACGCTGAAACTTCTGAACGGTCAACAGCTCGCGGA 477
QY 181 AGCGCGCAACCCATCCCAAGGGCGCGCAACCGAGGGCAGGTCTCTGGGCTCAGCCCGGG 240
DB 478 CGACGACAGCTTATCCCAAGCGGTGCGAGCGAGGCGGTCTCTGGGCTCAGCCCGGG 537
QY 241 TACCCCTTGGCCCTATATGGGAATGAGGGCTCGCGGTGGGCGAGGTGGCTCTGTCCCG 300
DB 538 TACCCCTTGGCCCTCTATGGTAAACGAGGGCTCGCGGTGGGCGAGGTGGCTCTGTCCCG 597
QY 301 CGCGGCTCTCGCCCGTCTGGGGGCCCAATGACCCCGCGCAGG 345
DB 598 CGCGGCTCTCGGTCATCTATGGGGGCCCAATGACCCCGCGGAGG 642

QY 241 TACCTTGGCCCTATATATGGAATGAGGGCTGGGGTGGGAGGGTGGCTCTCTGTCCTCCG 300
Db 241 TACCTTGGCCCTCTATGTAACGAGGGCTGGGGTGGGAGGGTGGCTCTCTGTCCTCCCA 300
QY 301 CGCGGCTCTCGCCGTCGTCGGGGCCCAATGATGACCCCGGGCGAGG 345
Db 301 CGCGGCTCCCGTCCATCTTGGGGCCCAATGATGACCCCGGGCGAGG 345

RESULT 12

US-08-290-665A-138
; Sequence 138, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 138:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12

US-08-290-665A-138

Query Match 77.4%; Score 267.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 8.8e-64;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 60
Db 1 ATGAGCACATCTTCTAAACCTCAAGAAAAACCAAGAAAAACCAATCGTGCACAG 60
QY 61 GACGTTAAGTTCACAGCGCGGCTCAGATCGTTGGTGGAGTTTACGTGCTACACGAGG 120
Db 61 GAGGTCAAGTTCCGGGTGGCGACAGATCGTTGGTGGAGTATACGTGTTGGCGGAGG 120
QY 121 GSCCCCACTTGGGTGTGTCGAGTCCGAGACATTCGAGCGGTTCGCAACTCGCAGT 180
Db 121 GSCCCCACTTGGGTGTGTCGAGTCCGAGACATTCGAAACCTTCTGAAACGGTTCACAGCCTCGCGA 180

QY 181 AGGCGCCCAACCCATCCCGAGGGCGCGCGAACCGAGAGGAGAGTCTCTGGGCTCAGCCCGG 240
Db 181 CGGCGACAGCCTATATCCCAAGCGGCTCGGAGCGAAGCCGCTCCTGGGCTCAGCCTGGG 240
QY 241 TACCTTGGCCCTATATATGGAATGAGGGCTGGGGTGGGAGGGTGGCTCTCTGTCCTCCG 300
Db 241 TACCTTGGCCCTCTATGTAACGAGGGCTGGGGTGGGAGGGTGGCTCTCTGTCCTCCCA 300
QY 301 CGCGGCTCTCGCCGTCGTCGGGGCCCAATGATGACCCCGGGCGAGG 345
Db 301 CGCGGCTCCCGTCCATCTTGGGGCCCAAGACGACCCCGGGCGAGG 345

RESULT 13

US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1

US-08-290-665A-141

Query Match 77.4%; Score 267.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 8.8e-64;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 60
Db 1 ATGAGCACAAATCTCTAAACCTCAAGAAAAACCAAGAAAAACCAACCGTGCACAG 60
QY 61 GACGTTAAGTTCACAGCGCGGCTCAGATCGTTGGTGGAGTTTACGTGCTACACGAGG 120
Db 61 GATGTAAATTCCTCCGGGCGGCGGCGAGATCGTTGGCGGAGTTTACTTGTCTCGCGGAGG 120


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; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S2
PCT-US95-10398-137

Query Match          77.4%; Score 267.2; DB 6; Length 573;
Best Local Similarity 85.8%; Pred. No. 8.8e-64;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTCTAAACCAACAGAAACCAAAAGAAACACCAACCCNCGGCCACAG 60
   |||||||
Db 1 ATGAGCACACTTCTCTAAACCTCAAGAAAAACAAAGAAACACCATCCGTCGCCACAG 60
   |||||||

QY 61 GACGTTAAGTTCCTCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCAAGCAGG 120
   |||||||
Db 61 GACATCAAGTTCCTCGGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTTGCCGCGCAGG 120
   |||||||

QY 121 GGGCCCCAGTTGGGTGTGCGTGCAGTGCAGAACACTTCCGAGCGGTGCGCAACTCGCAGT 180
   |||||||
Db 121 GGGCCCCAGATTGGGTGTGCGCGCAGCGCGTAAAACTTCTGAACGGTTCACAGCCTCGCGGA 180
   |||||||

QY 181 AGGCGCCACCCATCCCAAGGGCGCGCGAAGCGAGGGCAGGTCTTGGGCTCAGCCCGGG 240
   |||||||
Db 181 CGCGGACAGCCCTATCCCCAAGGCGGTGAGAGGAGGCCGATCCTTGGGCTCAGCCCGGG 240
   |||||||

QY 241 TACCCTTGGCCCTATATGGGAATGAGGGCTGCGGTGGGCGAGGGTGGCTCTGTCCCG 300
   |||||||
Db 241 TACCCTTGGCCCTCTATGTTAACGAGGGCTGCGGGTGGGCGAGGGTGGCTCTGTCCCG 300
   |||||||

QY 301 CGCGGCTTCGCCCGCTGCGTGGGGCCCAATGACCCCGGCGCAGG 345
   |||||||
Db 301 CGCGGCTTCGCCCTCATCTTGGGGCCCAATGACCCCGGCGGAGG 345
   |||||||
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Search completed: January 29, 2006, 23:23:54
Job time : 147 secs

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OM nucleic - nucleic search, using sw model

Run on: January 29, 2006, 23:14:39 ; Search time 812 Seconds
(without alignments)
3523.651 Million cell updates/sec

US-09-873-224B-147
 Title: 345
 Perfect score: 346
 Sequence: 1 atgagcacacttcctaacc.....aaatgacccccgggcaggga 346

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 segs, 4134689005 residues
Total number of hits satisfying chosen parameters: 19587084

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Database : Published Applications_NA_Main:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query			DB	ID	Description
		Match	Length				
1	345	100.0	346	3	US-09-899-046-147	Sequence 147, App	
2	345	100.0	346	3	US-09-878-281-147	Sequence 147, App	
3	334	96.8	345	3	US-09-873-224-147	Sequence 147, App	
4	298	86.4	309	3	US-09-851-138-49	Sequence 49, Appl	
5	272.6	79.0	652	3	US-09-851-138-59	Sequence 59, Appl	
6	271.2	78.6	499	3	US-09-899-046-165	Sequence 165, App	
7	271.2	78.6	499	3	US-09-878-281-165	Sequence 165, App	
8	271.2	78.6	499	3	US-09-873-224-165	Sequence 165, App	
9	270.4	78.4	573	3	US-09-194-949-5	Sequence 5, Appli	
10	270.4	78.4	573	9	US-10-664-391-5	Sequence 5, Appli	
11	264.6	76.7	498	3	US-09-899-046-193	Sequence 193, App	
12	264.6	76.7	498	3	US-09-878-281-193	Sequence 193, App	
13	264.6	76.7	498	3	US-09-873-224-193	Sequence 193, App	
14	264	76.5	499	3	US-09-899-046-163	Sequence 163, App	
15	264	76.5	499	3	US-09-878-281-163	Sequence 163, App	
16	264	76.5	499	3	US-09-873-224-163	Sequence 163, App	
17	264	76.5	2433	3	US-09-973-025-49	Sequence 49, Appl	
18	264	76.5	2433	3	US-09-973-025-49	Sequence 49, Appl	
19	264	76.5	2433	3	US-09-995-808-49	Sequence 49, Appl	
20	264	76.5	2433	3	US-09-995-860-49	Sequence 49, Appl	
21	264	76.5	2433	3	US-09-995-791-49	Sequence 49, Appl	
22	264	76.5	2433	7	US-10-321-798-49	Sequence 49, Appl	
23	262.4	76.1	531	8	US-10-484-112-1	Sequence 1, Appli	

24	262.4	76.1	1953	8	US-10-484-112-3	Sequence 3, Appl
25	260.8	75.6	360	3	US-09-306-780-3	Sequence 3, Appl
26	260.8	75.6	483	3	US-09-306-780-7	Sequence 7, Appl
27	260.8	75.6	843	3	US-09-306-780-11	Sequence 11, Appl
28	260.8	75.6	9353	8	US-10-475-024-17	Sequence 17, Appl
29	260.8	75.6	9413	3	US-09-827-688-6	Sequence 6, Appl
30	260.8	75.6	9413	9	US-10-475-026-17	Sequence 17, Appl
31	259.8	75.3	957	3	US-09-851-138-11	Sequence 11, Appl
32	259.2	75.1	378	8	US-10-677-956-13	Sequence 13, Appl
33	259.2	75.1	480	6	US-10-071-867-15	Sequence 15, Appl
34	259.2	75.1	9275	6	US-10-259-275-39	Sequence 39, Appl
35	259.2	75.1	9275	10	US-11-006-313-39	Sequence 39, Appl
36	257.6	74.7	378	8	US-10-677-956-9	Sequence 9, Appl
37	257.6	74.7	685	9	US-10-664-038-13	Sequence 13, Appl
38	257.6	74.7	685	3	US-09-853-409-37	Sequence 37, Appl
39	257.6	74.7	685	7	US-10-457-304-37	Sequence 37, Appl
40	257.6	74.7	685	7	US-10-454-293-37	Sequence 37, Appl
41	257.6	74.7	708	6	US-10-365-620-57	Sequence 57, Appl
42	257.6	74.7	708	8	US-10-918-969-59	Sequence 59, Appl
43	257.6	74.7	750	6	US-10-365-620-53	Sequence 53, Appl
44	257.6	74.7	750	8	US-10-912-969-55	Sequence 55, Appl
45	257.6	74.7	1380	6	US-10-365-620-59	Sequence 59, Appl

ALIGNMENTS

```

RESULT 1
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:

```

```

/ running date: 147:
/ INFORMATION FOR SEQ ID NO:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 346 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..346
/ FEATURE:
/ NAME/KEY: mat_peptide
/ LOCATION: 1..342
/ US-09-899-046-147

```

```

Query Match      100.0%;   Score 345;   DB 3;   Length 346;
Best Local Similarity 99.7%;   Pred. NO. 1.3e-96;
Matches 345;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;

Qy  1  ATGAGCACATTCCTCTAAACCAACAAGAAAAACCAAAAGAAACACCAACCCCGGCCACAG  60
Db   1  ATGAGCACATTCCTCTAAACCAACAAGAAAAACCAAAAGAAACACCAACCCCGGCCACAG  60

Qy  61  GAGCTTAAAGTTCCGAGCGCGCGTTCAGATCGTTGGTGGAGCTTTACGTGTACACGCGAGG  120

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Db 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGTGGTGCAGTGGCGCAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGTGGTGCAGTGGCGCAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Qy 181 AGGCGCCAAACCATCCCAAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 181 AGGCGCCAAACCATCCCAAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Qy 241 TACCCCTCGCCCTATATGGAATCAGGCGTGGGTCGGGTGGGCGAGGTCCTGTGCCCG 300
Db 241 TACCCCTCGCCCTATATGGAATCAGGCGTGGGTCGGGTGGGCGAGGTCCTGTGCCCG 300
Qy 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346

RESULT 2

US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342

US-09-878-281-147

Query Match 100.0%; Score 345; DB 3; Length 346;
Best Local Similarity 99.7%; Pred. No. 1.3e-96;
Matches 345; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGGCACAG 60
Db 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGGCACAG 60
Qy 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGTGGTGCAGTGGCGCAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGTGGTGCAGTGGCGCAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180

Qy 181 AGGCGCCAAACCATCCCAAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 181 AGGCGCCAAACCATCCCAAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Qy 241 TACCCCTGGCCCTATATGGAATCAGGCGTGGGTCGGGTGGGCGAGGTCCTGTGCCCG 300
Db 241 TACCCCTGGCCCTATATGGAATCAGGCGTGGGTCGGGTGGGCGAGGTCCTGTGCCCG 300
Qy 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346

RESULT 3

US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342

US-09-873-224-147

Query Match 96.8%; Score 334; DB 3; Length 345;
Best Local Similarity 99.7%; Pred. No. 3.3e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGGCACAG 60
Db 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGGCACAG 59
Qy 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 60 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 119

QY 121 GGGCCCCAGTTGGGTGTCAGTGCAGAGACTTCCGAGCGGTGCAACCTCGCAGT 180
Db 120 GGGCCCCAGTTGGGTGTCAGTGCAGAGACTTCCGAGCGGTGCAACCTCGCAGT 179
QY 181 AGGCGCCCAACCATCCAGGGGGCGGCGAACCAGAGGCGAGGTCTCTGGGCTCAGCCCGG 240
Db 180 AGGCGCCCAACCATCCAGGGGGCGGCGAACCAGAGGCGAGGTCTCTGGGCTCAGCCCGG 239
QY 241 TACCTTGGCCCCCTATATGCGGAATGAGGGCTCGGGTGGGCGAGGTGCGTCTCTGCCCCG 300
Db 240 TACCTTGGCCCCCTATATGCGGAATGAGGGCTCGGGTGGGCGAGGTGCGTCTCTGCCCCG 299
QY 301 CGCGGCTCTCGCCCGTCTGCGGGCCCAATGACCCCGCGCGCAGGA 346
Db 300 CGCGGCTCTCGCCCGTCTGCGGGCCCAATGACCCCGCGCGCAGGA 345

RESULT 4

US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:

LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 49:

US-09-851-138-49

Query Match 86.4%; Score 298; DB 3; Length 309;
Best Local Similarity 99.7%; Pred. No. 4.5e-82;
Matches 309; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAACCAACCAACC - CGGGCCACAG 60
|||||

Db 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAACCAACCAACC - CGGGCCACAG 59
QY 61 GACGTTAAGTTCCAGGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACACGACG 120
Db 60 GACGTTAAGTTCCAGGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACACGACG 119
QY 121 GGGCCCCAGTTGGGTGTCAGTGCAGAGACTTCCGAGCGGTGCAACCTCGCAGT 180
Db 120 GGGCCCCAGTTGGGTGTCAGTGCAGAGACTTCCGAGCGGTGCAACCTCGCAGT 179
QY 181 AGGCGCCCAACCATCCAGGGGGCGGCGAACCAGAGGCGAGGTCTCTGGGCTCAGCCCGG 240
Db 180 AGGCGCCCAACCATCCAGGGGGCGGCGAACCAGAGGCGAGGTCTCTGGGCTCAGCCCGG 239
QY 241 TACCTTGGCCCCCTATATGCGGAATGAGGGCTCGGGTGGGCGAGGTGCGTCTCTGCCCCG 300
Db 240 TACCTTGGCCCCCTATATGCGGAATGAGGGCTCGGGTGGGCGAGGTGCGTCTCTGCCCCG 299
QY 301 CGCGGCTCTC 310
Db 300 CGCGGCTCTC 309

RESULT 5

US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 59:

SEQUENCE CHARACTERISTICS:

LENGTH: 652 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 59:

US-09-851-138-59

Query Match 79.0%; Score 272.6; DB 3; Length 652;


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RESULT 8
US-09-873-224-165
; Sequence 165, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
;                       genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 165:
US-09-873-224-165

Query Match      78.6%; Score 271.2; DB 3; Length 499;
Best Local Similarity 86.3%; Pred. No. 9.4e-74;
Matches 297; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGGCACAG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACACCAACCGCGCCCTATG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 61 GACGTTAAGTTCACAGCGCGGTGATCGTTGGTGGAGTTTACGTCTACACGACAG 120
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 61 GACGTTAAGTTCACAGCGCGGTGATCGTTGGTGGAGTTTACTTGTTCGCGGACAG 120
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 121 GCGCCCGGAGTGGGTGCGTGCAGAGCTTCGAGAGCTTCGAGCGGTTCGCAACTCGCAGT 180
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 121 GCGCCCGGAGTGGGTGCGTGCAGAGCTTCGAGAGCTTCGAGCGGTTCGCAACTCGCAGT 180
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 241 TACCTTGGCCCTATATAGGGAATAGAGGCTCGGAGGCGAGTCTCTGGGCTCAGCCCGG 300
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 241 TATCTTGGCCCTTTACGCAATAGAGGCTCGGAGGCTCGGAGGCTCTGTCTCTCT 300
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 301 CGCGGCTCTCGCCGCTCGTGGGGCCCAATGATACCCCGCGGCGAG 344
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 301 CGCGGCTCTCGGCGCTCTTGGGGCCCAATGATATCCCGGNGGAG 344
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
```

```
RESULT 9
US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match      78.4%; Score 270.4; DB 3; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.7e-73;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGGCACAG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACACCAACCGCGCCCGCAG 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 61 GACGTTAAGTTCACAGCGCGGTGATCGTTGGTGGAGTTTACGTCTACACGACAG 120
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 61 GACGTTAAGTTCACAGCGCGGTGATCGTTGGTGGAGTTTACTTGTTCGCGGACAG 120
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 121 GCGCCCGGAGTGGGTGCGTGCAGTGCAGAGCTTCGAGCGGTTCGCAACTCGCAGT 180
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 121 GCGCCCGGAGTGGGTGCGTGCAGTGCAGAGCTTCGAGCGGTTCGCAACTCGTGA 180
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 181 AGCGCCCAACCCATCCCGAGCGCGCGAACCAGAGGCTCTCTGGGCTCAGCCCGG 240
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 241 TACCTTGGCCCTATATAGGGAATAGAGGCTCGGAGGCGAGTCTCTGTCTCTCTCT 300
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 241 TACCTTGGCCCTCTATGGCAATAGAGGCTTCGGGTGGGCAAGATGGCTCTCTCTCT 300
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY 301 CGCGGCTCTCGCCGCTCGTGGGGCCCAATGATACCCCGCGGCGAG 345
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 301 CGCGGCTCTCGGCTCTAGTTGGGGCCCACTGACCCCGGCGTAGG 345
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

RESULT 10
US-10-664-391-5
; Sequence 5, Application US/10664391
; Publication No. US20050074752A1
; GENERAL INFORMATION:
; APPLICANT: Donnelly, John J.
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; APPLICANT: Fu, Tong-Ming
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732VCA
; CURRENT APPLICATION NUMBER: US/10/664,391
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
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; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match      78.4%; Score 270.4; DB 9; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.7e-73;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAAAAGAAAGAAACCAAAAGAAACCAAAACCAACCCGCGGCACAG 60
DB 1 ATGAGCAGCAATCCTAAACCTCAAGAGAAACCAAAAGAAACCAAAACCAACCCGCGGCACAG 60
QY 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAGG 120
DB 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACTTGTGGCGGCGAGG 120
QY 121 GCGCCCAAGTTGGGTGTCAGTGGCGAGACTTCCGAGCGGTCGCAACCTCGTGGGA 180
DB 121 GCGCCCAAGTTGGGTGTCAGTGGCGAGACTTCCGAGCGGTCGCAACCTCGTGGGA 180
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 240
DB 181 AGGCGACAGCTTATCCCAAGCTCGCGCGCGAGGCGAGTCTCGGGCTCAGCCCGGG 240
QY 241 TACCCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCTCTCTGTCCCG 300
DB 241 TACCCCTTGGCCCTTATATGGCAATGAGGGCTGCGGGTGGCGAGGATGGCTCTCTGTCCCG 300
QY 301 CGCGGCTCTCGCGCTGTCGGGGCCCAATGACCCCGCGCGAGG 345
DB 301 CGCGGCTCTCGCGCTAGTTGGGGCCCACTGACCCCGCGCGTAGG 345
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RESULT 11
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/899,046
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; Query Match      76.7%; Score 264.6; DB 3; Length 498;
; Best Local Similarity 85.5%; Pred. No. 1e-71;
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; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-899-046-193

Query Match      76.7%; Score 264.6; DB 3; Length 498;
Best Local Similarity 85.5%; Pred. No. 1e-71;
Matches 294; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCTAAACCAAAAGAAAGAAACCAAAAGAAACCAACCCGCGGCACAG 60
DB 1 ATGAGCAGCAATCCTAAACCTCAAGAGAAACCAAAAGAAACCAACCCGCGGCCTATG 60
QY 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 120
DB 61 GACGTTAAGTTCCCGGCGGTGGACAGATCGTTGGCGGAGTTTACTTGTGCGGCGAGG 120
QY 121 GCGCCCAAGTTGGGTGTCAGTGGCGAGACTTCCGAGCGGTCGCAACCTCGTGGC 180
DB 121 GCGCCCAAGTTGGGTGTCAGTGGCGAGACTTCCGAGCGGTCGCAACCTCGTGGC 180
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 240
DB 181 AGGCGTCAACTATCCCAAGCGCGCGGTCGAGGCGAGTCTCGGGCGAAGCCCGG 240
QY 241 TACCCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCTCTCTGTCCCG 300
DB 241 TACCCCTTGGCCCTTATATGGCAATGAGGGCTGCGGGTGGCGAGGTTGGCTCTCTGTCTCT 300
QY 301 CGCGGCTCTCGCGCTGTCGGGGCCCAATGACCCCGCGCGAG 344
DB 301 CGCGGCTCTCGCGCATCTTGGGGCCCAATGATCCCGCGCGAG 344
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RESULT 12
US-09-878-281-193
; Sequence 193, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/878,281
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-878-281-193

Query Match      76.7%; Score 264.6; DB 3; Length 498;
; Best Local Similarity 85.5%; Pred. No. 1e-71;
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; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-43

Query Match      10.6%; Score 36.6; DB 8; Length 159660;
Best Local Similarity 50.9%; Pred. No. 2.4;
Matches 87; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 172 CTCGAGTAGGCGGCAACCCATCCCGAGGCGCGCGAACCGAGGGGAGGTCTCTGGGCT 231
Db 117540 CCTCGAGCTGTGAAGCCCGCCACCGCTTCCCGGGCTGCCCCAGCTCCCTCCCT 117481

QY 232 CAGCCGCGGTACCTTGGCCCTATATGGAATGAGGGTGGGCTGGGCGAGGTGCTC 291
Db 117480 CTTCCCGCTCACCTTGGGAGAGCGCGCTGGGAGGCCCTTGGCGCCCTCAGACGGGAC 117421

QY 292 CTGTCCCGCGCGGCTCTCGCCCGCTGTGGGCGCCCAAAATGACCCCGCGCGC 342
Db 117420 GGGTCCCGGGGTTGGCAGCGCGCCAGGTGGCCAGCAGGCGCGGGCAGC 117370

RESULT 12
US-11-121-086-5
; Sequence 5, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 153376
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-5

Query Match      10.1%; Score 34.8; DB 8; Length 153376;
Best Local Similarity 49.5%; Pred. No. 7.6;
Matches 90; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 143 CAGTCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGTAGGCGCAACCCATCCCGAGG 202
Db 77995 CAGATGGGTGATTTCCGAGGACCTCGCTGGGCTGGCGCCCTCCCATGCCCCGG 78054

QY 203 CGCGCGCAACCGAGGCGAGGTCTCTGGGCTCAGCCGCGGTACCTTTGGCCCTTATATGGGA 262
Db 78055 CGCTTCCAGGAAGAGCTTATGCTGGGCTCAGCCCGAGGCTTTTGGAGCACCAGTGGTG 78114

QY 263 ATGAGGCTCGGGTGGGAGGCTGCTCTGCTCCCGGCGGCTCTCGCCGCTCGTGGG 322
Db 78115 GTGGTGTGGGAGGCGCGCGGCTTCATGGCTCTGCGGGGTGCGCGAGGCTCTGAG 78174

QY 323 GC 324
Db 78175 CC 78176
```

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RESULT 13
US-11-075-185-34
; Sequence 34, Application US/11075185
; Publication No. US20050266434A1
; GENERAL INFORMATION:
; APPLICANT: REEVES, CHRISTOPHER D
; APPLICANT: JULIEN, BRYAN
; APPLICANT: REID, RALPH
; TITLE OF INVENTION: BIOSYNTHETIC GENE CLUSTER FOR AMBRUTICINS
; FILE REFERENCE: 010099.03
; CURRENT APPLICATION NUMBER: US/11/075,185
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/551,103
; PRIOR FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US 60/568,290
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 11070
; TYPE: DNA
; ORGANISM: Sorangium cellulosum
US-11-075-185-34

Query Match      10.0%; Score 34.4; DB 8; Length 11070;
Best Local Similarity 48.5%; Pred. No. 4.5;
Matches 95; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 147 GCGCAAGACTTCCGAGCGGTGCGAACCTCGCAGTAGGCGCCACCCATCCCGAGGCGCG 206
Db 1375 GCGCGCGGTGCGAAGCGCCGCGACACGCGCGCGGTGCGCGCGCGCGCGCGCTTG 1434

QY 207 CGGAACCGAGGCGAGTCTCTGGGCTCAGCCGCGGTACCTTTGGCCCTATATGGGATGA 266
Db 1435 CCGGAGACGCTGCCCGCTCTCTGTGCGGGCGGAGACGAGGCGCGCTCAGGGCGCAAGCC 1494

QY 267 GGGCTGCGGGTGGGCGAGGTGCTCTCTGTCGCCGCGCGCTCTGCGCGCGCTCTGCGGGCCC 326
Db 1495 GGGCAGTGGCGCGGTGCTCTGCGCGCGCACCGGAGGCTCTCTGCGCGCGACCTGTGTCAC 1554

QY 327 AAATGACCCCGCGCGC 342
Db 1555 ACGCGCGCGCGCGCGC 1570

RESULT 14
US-11-075-185-1
; Sequence 1, Application US/11075185
; Publication No. US20050266434A1
; GENERAL INFORMATION:
; APPLICANT: REEVES, CHRISTOPHER D
; APPLICANT: JULIEN, BRYAN
; APPLICANT: REID, RALPH
; TITLE OF INVENTION: BIOSYNTHETIC GENE CLUSTER FOR AMBRUTICINS
; FILE REFERENCE: 010099.03
; CURRENT APPLICATION NUMBER: US/11/075,185
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/551,103
; PRIOR FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US 60/568,290
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; LENGTH: 78869
; TYPE: DNA
; ORGANISM: Sorangium cellulosum
US-11-075-185-1

Query Match      10.0%; Score 34.4; DB 8; Length 78869;
Best Local Similarity 48.5%; Pred. No. 8;
Matches 95; Conservative 0; Mismatches 101; Indels 0; Gaps 0;
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Run on: January 28, 2006, 04:26:04 ; Search time 21 Seconds
(without alignments)
2724.360 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 638
Sequence: 1 atggacacactctctaaac.....aatgaccccgccgagga 346

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Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 1144120

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pco -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*
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6: /cgm2_6/ptodata/1/iaa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	637	99.8	115	2	US-08-836-075A-50
2	609	95.5	191	1	US-08-290-665A-187
3	609	95.5	191	1	US-08-290-665A-188
4	609	95.5	191	1	US-08-290-665A-190
5	609	95.5	191	4	PCT-US95-10398-187
6	609	95.5	191	4	PCT-US95-10398-188
7	609	95.5	191	4	PCT-US95-10398-190
8	608	95.3	191	1	US-08-290-665A-189
9	608	95.3	191	4	PCT-US95-10398-189
10	603	94.5	191	1	US-08-290-665A-192
11	603	94.5	191	1	US-08-290-665A-193
12	603	94.5	191	1	US-08-290-665A-195

13	603	94.5	191	4	PCT-US95-10398-192	Sequence 192, App
14	603	94.5	191	4	PCT-US95-10398-193	Sequence 193, App
15	603	94.5	191	4	PCT-US95-10398-195	Sequence 195, App
16	602	94.4	120	2	US-08-931-855B-14	Sequence 14, Appl
17	600	94.0	319	2	US-08-836-075A-12	Sequence 12, Appl
18	600	94.0	319	2	US-08-635-886C-199	Sequence 199, App
19	600	94.0	319	2	US-08-974-690C-199	Sequence 199, App
20	599	93.9	191	1	US-08-290-665A-196	Sequence 196, App
21	599	93.9	191	4	PCT-US95-10398-186	Sequence 186, App
22	598	93.7	450	2	US-08-635-886C-181	Sequence 181, App
23	598	93.7	450	2	US-08-974-690C-181	Sequence 181, App
24	598	93.7	2894	1	US-08-466-975A-23	Sequence 23, Appl
25	598	93.7	2894	1	US-08-391-671A-23	Sequence 23, Appl
26	598	93.7	2894	2	US-08-467-902A-23	Sequence 23, Appl
27	598	93.7	2894	2	US-09-275-265-23	Sequence 23, Appl
28	598	93.7	2894	2	US-09-941-611-23	Sequence 23, Appl
29	598	93.7	2894	2	US-10-044-995-23	Sequence 23, Appl
30	597	93.6	120	2	US-08-931-855B-10	Sequence 10, Appl
31	597	93.6	182	2	US-10-104-966-2	Sequence 2, Appl
32	597	93.6	182	2	US-09-929-955-2	Sequence 2, Appl
33	597	93.6	191	1	US-08-290-665A-156	Sequence 156, App
34	597	93.6	191	1	US-08-290-665A-157	Sequence 157, App
35	597	93.6	191	1	US-08-290-665A-158	Sequence 158, App
36	597	93.6	191	1	US-08-290-665A-159	Sequence 159, App
37	597	93.6	191	1	US-08-290-665A-160	Sequence 160, App
38	597	93.6	191	1	US-08-290-665A-191	Sequence 191, App
39	597	93.6	191	1	US-08-290-665A-197	Sequence 197, App
40	597	93.6	191	2	US-08-380-160-3	Sequence 3, Appl
41	597	93.6	191	4	PCT-US95-10398-156	Sequence 156, App
42	597	93.6	191	4	PCT-US95-10398-157	Sequence 157, App
43	597	93.6	191	4	PCT-US95-10398-158	Sequence 158, App
44	597	93.6	191	4	PCT-US95-10398-159	Sequence 159, App
45	597	93.6	191	4	PCT-US95-10398-160	Sequence 160, App

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 4 09e-53 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCCCGCGCGGTCAGATCGTTGGTGGAGTTTACGTTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnValGlyGlyValLeuProArgArg 40
QY 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTCCGACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGGCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 240
Db 61 ArgArgGlnProLysProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGCGAGGCTGCTCTCCCGC 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGTCGGGCGCCCAATCATCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 2 15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
QY 1 ATGAGCACCTTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACGTTAAGTTCCCGCGCGGTCAGATCGTTGGTGGAGTTTACGTTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnValGlyGlyValLeuProArgArg 40
QY 121 GGCCCCCAGTTGGGTGCGTGCAGTGCAGAGACTTCCGAGCGGTCCGACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGGCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGCGAGGCTGCTCTCCCGC 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGTCGGGCGCCCAATCATCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
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;
;
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
;
; US-08-290-665A-188
;
; Alignment Scores:
; Pred. No.: 2,15e-50 Length: 191
; Score: 609.00 Matches: 108
; Percent Similarity: 96.52% Conservative: 3
; Best Local Similarity: 93.91% Mismatches: 4
; Query Match: 95.45% Indels: 0
; DB: 1 Gaps: 0
;
; US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)
;
; QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACACCCGCGCACAG 60
; Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
;
; QY 61 GACGTTAAGTTCCTCCAGCGCGGTGAGTTCGATCGTGTGGAGTTTACGTGTACACGCGAG 120
; Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
;
; QY 121 GCGCCCGACATCTCCAGCGCGCGCGCAACCGAGCGGTCTCGCAACTCGCAGT 180
; Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
;
; QY 181 AGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAGTCTCGTCCCG 240
; Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
;
; QY 241 TACCTTGGCCCTATATATGGGAATGAGGCTCGCGGTGGCGAGGTCTCTGTCCTCC 300
; Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
;
; QY 301 CGCGGCTCTCGCCCGTCTGGTGGGCGCCCAATGACCCCGCGCGAGG 345
; Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
;
; RESULT 4
;
; US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;
;
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
;
; US-08-290-665A-190
;
; Alignment Scores:
; Pred. No.: 2,15e-50 Length: 191
; Score: 609.00 Matches: 108
; Percent Similarity: 96.52% Conservative: 3
; Best Local Similarity: 93.91% Mismatches: 4
; Query Match: 95.45% Indels: 0
; DB: 1 Gaps: 0
;
; US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)
;
; QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACACCCGCGCACAG 60
; Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
;
; QY 61 GACGTTAAGTTCCTCCAGCGCGGTGAGTTCGATCGTGTGGAGTTTACGTGTACACGCGAG 120
; Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
;
; QY 121 GCGCCCGACATCTCCAGCGCGCGCGCAACCGAGCGGTCTCGCAACTCGCAGT 180
; Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
;
; QY 181 AGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAGTCTCGTCCCG 240
; Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
;
; QY 241 TACCTTGGCCCTATATATGGGAATGAGGCTCGCGGTGGCGAGGTCTCTGTCCTCC 300
; Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
;
; QY 301 CGCGGCTCTCGCCCGTCTGGTGGGCGCCCAATGACCCCGCGCGAGG 345
; Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
;
; RESULT 5
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PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-187 (1-191)

Qy 1 ATGAGCACATTCCTTAACCAAGAAAAACCAAAAGAAACACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

Qy 61 GACGTTAAGTCCAGCGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyValLeuProArgArg 40

Qy 121 GGGCCCCAGTTGGGTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

Qy 181 AGGCGCCCAACCCATCCCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGGCGGAGGTGCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyArgLysGlnGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 301 CGCGGCTCTCCCGCGTCTGTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 6
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

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;
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

Alignment Scores:
Pred. No.: 2,68e-50 Length: 191
Score: 608.00 Matches: 107
Percent Similarity: 96.52% Conservative: 4
Best Local Similarity: 93.04% Mismatches: 4
Query Match: 95.30% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-189 (1-191)
QY 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgSerThrLeuArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGCTCAGATCTGTGGTGGAGTTACGTCTACCGCAGG 120
DB 21 AspIleLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GCGCCCAAGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTTATATGGGAATGAGGCTGCGGCGCGCGCGCGCGCGCGCGCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGlyGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCCCGCTGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9
PCT-US95-10398-189
; Sequence 189, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
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;
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S2
PCT-US95-10398-189

Alignment Scores:
Pred. No.: 2,68e-50 Length: 191
Score: 608.00 Matches: 107
Percent Similarity: 96.52% Conservative: 4
Best Local Similarity: 93.04% Mismatches: 4
Query Match: 95.30% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-189 (1-191)
QY 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgSerThrLeuArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGCTCAGATCTGTGGTGGAGTTACGTCTACCGCAGG 120
DB 21 AspIleLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GCGCCCAAGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTTATATGGGAATGAGGCTGCGGCGCGCGCGCGCGCGCGCGCG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGlyGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCCCGCTGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 10
US-08-290-665A-192
; Sequence 192, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
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; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 192:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: 28
 ; US-08-290-665A-192

RESULT 11
 US-08-290-665A-193
 ; Sequence 193, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 193:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: Z1
 ; US-08-290-665A-193

	QY	1	ATGAGCACA	TCTTCTTAACCCAAAGA	AAAAAACCAACCAACCNCGCCGCACAG	60
	Db	1	MetSerThrAsnProIysProGlnArgLysThrIysArgAsnThrAsnA	ArgP	ProMet	20
	QY	61	GACGTTTAAGTTC	CCCAGGGCGGTCAGATCGTGCGAGTTTACG	TGTACGTCACCACCCAG	120
	Db	21	AspValLysPheProGlyGlyGlyGlnLeuValGlyGlyValIyrLeuLeuProA	ArgA	rg	40
	QY	121	GGCCCCCAACTTGGGTGTCGTCGATGCGCAGAGACTTCCGAGCGGTGCGCAACCTCGCAGT			180
	Db	41	GlyProArgLeuGlyValA	ArgAlaThrArgLysThrSerGluArgSerGlnProA	rgGly	60
	QY	181	AGGCGCCAACCATCCACGAGGCGCGCGAACCAGGCGCAGGTCTGGGCTCAGCCCGGG			240
	Db	61	ArgArgGlnProIleProLysAala	aArgSerGluGlyArgSerTrpAlaGlnProGly		80
	QY	241	TACCCCTGGCCCTATATGGGAATCAGAGGCTCGCGGTGGCGAGGTCGGCTCCTCGTCCCGC			300
	Db	81	TyrProTrpProLeuTy	rGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro		100
	QY	301	CGGCGGCTCTCGCCGCTCGTGGGGGCCAAATGACCCCCGGCGCAGG			345
	Db	101	ArgGlySerArgProSerTrpGlyProAsnAspProA	rgA	rg	115

Alignment Scores:		
Pred. No.:	8.09e-50	Length:
Score:	603.00	Matches:
Percent Similarity:	95.61%	Conservative:
Best Local Similarity:	92.17%	Mismatches:
Query Match:	84.51%	Indels:
DB:	1	Gaps:
		0
		191

QY 241 TACCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGAGGGTGGCTCTCTGTCCTCCG 300
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QY 301 CGCGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTTPGlyProAsnAspProArgA-gArg 115
RESULT 12
US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195
Alignment Scores:
Pred. No.: 8.09e-50 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
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Db 1 MetSerThrAsnProLeuProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 61 GACGTTAAGTTCCAGCGGGGCTCAGATCCTTGGTGGAGTTAGTGCTACCGAGG 120
Pred. No.: 8.09e-50 Length: 191

Db 21 AspVallysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGGCAAGACTTCCGAGCGGTCCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGGCAGGTCTCGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLeuAlaArgArgSerGluGlyArgSerTTPAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGAGGGTGGCTCTCTGTCCTCCG 300
Db 81 TyrProTTPProLeuTyrGlyAsnGluGlyCysGlyTTPalaGlyTTPLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTTPGlyProAsnAspProArgA-gArg 115
RESULT 13
PCT-US95-10398-192
; Sequence 192, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: Z8
PCT-US95-10398-192
Alignment Scores:
Pred. No.: 8.09e-50 Length: 191

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Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-192 (1-191)

QY 1 ATGAGCACACTTCTTAACCAAGAAACCAAAAGAAACCAACCAACCCGCGGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 61 GACGTTAAGTCCAGCGCGGTGATCGTGTGGAGTTACGTGTACACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyrlLeuLeuProArg 40

QY 121 GCGCCCGCAGTGGGTGCGTGCAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGCGCCCAACCCATCCCGAGCGCGCCGCAACCGAGCGGCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCTTGGCCCTATATAGGAATGAGGCTGCGGTGGCGAGGTGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTCGCGCTGCGTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 14
PCT-US95-10398-193
; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849

; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

Alignment Scores:
Pred. No.: 8,09e-50 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-193 (1-191)

QY 1 ATGAGCACACTTCTTAACCAAGAAACCAAAAGAAACCAACCAACCCGCGGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 61 GACGTTAAGTCCAGCGCGGTGATCGTGTGGAGTTACGTGTACACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyrlLeuLeuProArg 40

QY 121 GCGCCCGCAGTGGGTGCGTGCAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 181 AGCGCCCAACCCATCCCGAGCGCGCCGCAACCGAGCGGCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 241 TACCTTGGCCCTATATAGGAATGAGGCTGCGGTGGCGAGGTGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 301 CGCGGCTCTCGCGCTGCGTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15
PCT-US95-10398-195
; Sequence 195, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
PCT-US95-10398-195

Alignment Scores:
Pred. No.:      8,09e-50      Length:      191
Score:          603.00        Matches:    106
Percent Similarity: 95.65%    Conservative: 4
Best Local Similarity: 92.17%  Mismatches:  5
Query Match:     94.51%       Indels:     0
DB:              4           Gaps:       0

US-09-873-224B-147 (1-346) x PCT-US95-10398-195 (1-191)

Qy      1 ATGAGCACACTTCCTAAACCCACCAAGAAAACCAACCAACACCAACCCGCGCCACAG 60
Db      1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy      61 GACGTTAAGTTCCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTGCTACACGCGCAGG 120
Db      21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgarg 40

Qy      121 GCGCCCCAGTTGGTGTCGTCAGTCGCAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db      41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy      181 AGCGCCCAACCATCCCGCGCGCGCGCGAACCAGGCGAGGCTCTGGGCTCAGCCCGGG 240
Db      61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy      241 TACCTTCGCCCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCCTGTCCCCG 300
Db      81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy      301 CGCGGCTCTCGCCGTCGTGGGGCCCAATACCCCGCGCGCAGG 345
Db      101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
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Search completed: January 28, 2006, 04:37:35
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: January 28, 2006, 04:36:05 ; Search time 59.5 Seconds
(without alignments)
4859.460 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 638
Sequence: 1 atgagcacactctctaaacc.....aatgaccccgccgagga 346

Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 3735138

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext
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-USER=US09873224 @CEN 1.1.202 @runat_27012006_154124_13602 -NCPU=6 -ICPU=3
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELEX=6 -DELEXT=7

Database : Published Applications AA.Main:

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- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	637	99.8	115	3	US-09-851-138-50
2	637	99.8	115	3	US-09-899-046-148
3	637	99.8	115	3	US-09-878-281-148
4	602	94.4	120	4	US-10-677-956-14
5	602	94.4	189	4	US-10-450-649-9
6	600	94.0	130	4	US-10-268-569-19
7	600	94.0	319	3	US-09-851-138-12
8	600	94.0	319	4	US-10-651-165-199
9	598	93.7	450	4	US-10-651-165-181
10	598	93.7	2894	3	US-09-941-611-23
11	598	93.7	2894	4	US-10-044-995-23

12	598	93.7	2894	5	US-10-822-871-23	Sequence 23, Appl
13	597	93.6	120	4	US-10-677-956-10	Sequence 10, Appl
14	597	93.6	151	4	US-10-292-129-14	Sequence 14, Appl
15	597	93.6	182	3	US-09-929-955-2	Sequence 2, Appli
16	597	93.6	182	4	US-10-104-966-2	Sequence 2, Appli
17	597	93.6	182	4	US-10-719-619-2	Sequence 2, Appli
18	597	93.6	182	5	US-10-817-591-2	Sequence 2, Appli
19	597	93.6	235	4	US-10-365-620-58	Sequence 58, Appl
20	597	93.6	235	5	US-10-912-969-60	Sequence 60, Appl
21	597	93.6	249	4	US-10-365-620-54	Sequence 54, Appl
22	597	93.6	249	5	US-10-912-969-56	Sequence 56, Appl
23	597	93.6	319	4	US-10-651-165-217	Sequence 217, App
24	597	93.6	450	4	US-10-651-165-180	Sequence 179, App
25	597	93.6	450	4	US-10-651-165-180	Sequence 60, Appl
26	597	93.6	459	5	US-10-912-969-62	Sequence 62, Appl
27	597	93.6	459	5	US-10-913-171-41	Sequence 41, Appl
28	597	93.6	473	4	US-10-365-620-56	Sequence 56, Appl
29	597	93.6	473	4	US-10-912-969-58	Sequence 58, Appl
30	597	93.6	473	5	US-10-913-171-39	Sequence 39, Appl
31	597	93.6	1892	5	US-10-612-884-6	Sequence 6, Appli
32	597	93.6	3011	3	US-09-742-659-4	Sequence 4, Appli
33	597	93.6	3011	3	US-09-952-572-9	Sequence 9, Appli
34	597	93.6	3011	3	US-09-929-955-1	Sequence 1, Appli
35	597	93.6	3011	3	US-09-747-419-20	Sequence 20, Appl
36	597	93.6	3011	3	US-09-891-894-3	Sequence 3, Appli
37	597	93.6	3011	4	US-10-104-966-1	Sequence 1, Appli
38	597	93.6	3011	4	US-10-259-275-20	Sequence 20, Appl
39	597	93.6	3011	4	US-10-184-150-3	Sequence 3, Appli
40	597	93.6	3011	4	US-10-328-997-3	Sequence 3, Appli
41	597	93.6	3011	4	US-10-189-359-14	Sequence 14, Appl
42	597	93.6	3011	4	US-10-296-734-406	Sequence 406, App
43	597	93.6	3011	4	US-10-719-619-1	Sequence 1, Appli
44	597	93.6	3011	4	US-10-817-591-1	Sequence 1, Appli
45	597	93.6	3011	5	US-10-817-591-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUDYER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.

Alignment Scores:
Pred. No.: 5,7e-47 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-899-046-148 (1-115)

QY	1	ATGAGCACACTTCTTAACCAACAAGAAACCAAAACCAACCAACCAACCCGCGCCACAG	60
Db	1	MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln	20
QY	61	GACGTTAAGTTCACGAGGCGCGGTACAGATCGTTGGTGAGTTTACGTGTACACGCAGG	120
Db	21	AspValLysPheProGlyGlyGlnLeuValGlyValTyrValLeuProArgArg	40
QY	121	GGCCCCCAGTTGGGTGTCGTGCGATGCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT	180
Db	41	GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer	60
QY	181	AGGCGCCAACCCATCCCCAGGCGCGCCGACCGAGGCGCAGGTCTCTGGGCTCAGCCCGG	240
Db	61	ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly	80
QY	241	TACCTTTGGCCCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCTCTGTCTCCCG	300
Db	81	TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro	100
QY	301	CGCGGCTCTCCCGCGTCTGTCGGGCGCCAAATGACCCCGCGCGCAGG	345
Db	101	ArgGlySerArgProSerTrpGlyProAsnLysProArgArgArg	115

RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.: 5,7e-47 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)

QY	1	ATGAGCACACTTCTTAACCAACAAGAAACCAAAACCAACCAACCAACCCGCGCCACAG	60
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QY 1 ATGAGCACATCTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGCAGTTGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTCCGCAACTCCGAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCGCAACCCATCCAGCGCGCCGCAACCGAGGCGAGGTCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGATGAGGCTGCGGTGGCGAGGTGGTCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCGTGGGCGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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RESULT 8

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US-10-651-165-199
; Sequence 199, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 199
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (152)..(152)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (159)..(159)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (163)..(163)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (164)..(164)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (165)..(165)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (166)..(166)
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; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (167)..(167)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (170)..(170)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (174)..(174)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (175)..(175)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (180)..(180)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (226)..(226)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (317)..(317)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (318)..(318)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (319)..(319)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-199
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Alignment Scores:

Pred. No.:	1,01e-43	Length:	319
Score:	600.00	Matches:	106
Percent Similarity:	94.78%	Conservative:	3
Best Local Similarity:	92.17%	Mismatches:	6
Query Match:	94.04%	Indels:	0
DB:	4	Gaps:	0

US-09-873-224B-147 (1-346) x US-10-651-165-199 (1-319)

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QY 1 ATGAGCACATCTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGCAGTTGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTCCGCAACTCCGAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCGCAACCCATCCAGCGCGCCGCAACCGAGGCGAGGTCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGATGAGGCTGCGGTGGCGAGGTGGTCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCGTGGGCGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
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RESULT 11
US-10-044-995-23
; Sequence 23, Application US/10044995
; Publication No. US20030949685A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWUN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23
Alignment Scores:
Pred. No.: 1.72e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 4 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-044-995-23 (1-2894)
QY 1 ATGACGACGCTCTTAACCAAGAAAGAAACCAACCAACGCGGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
|||||
61 GACGTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACACGACG 120
21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg 40
121 GCGCCCGCAGTTGGGTGCGTGCAGTGGCGCAAGACTTCGAGCGGTGCGCAACTCGCA 180
41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
181 AGGCGCCCAACCCATCCAGCGCGCGCGCAACCGAGGCGAGGTCTCTGGGCTCAGCCGCG 240
61 ArgArgGlnProIleProLysValArgProGluGlyArgThrTrpAlaGlnProGly 80
241 TACCTTGGCCCTATATGGAATCAGGCTCGCGGTGGGCGAGGTGGCTCTCTGTCCTCCG 300
81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
301 CGCGGCTCTCGCGCGTGGTGGGCGGCGCAATGACCCCGCGCGCAGG 345
101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
RESULT 12
US-10-822-871-23
; Sequence 23, Application US/10822871
; Publication No. US20050003345A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWUN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/822,871
; FILING DATE: 13-Apr-2004
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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RESULT 15
US-09-929-955-2
; Sequence 2, Application US/09929955
; Patent No. US20020136740A1
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg
; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: TRIPEP.23AUS2
; CURRENT APPLICATION NUMBER: US/09/929,955
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 09/705,547
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2

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BEST AVAILABLE COPY


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Db 1 MetSerThrAsnProlyProGlnArglyshThryAsGAsnthRasnarGArgProGln 20
Qy 61 GACGTTAAAGTCCAGCGCGGGTGCAGATCGTGTGGAGTTTACGTGCTACCCAGCAGG 120
Db 21 AspVallysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
Qy 121 GGGCCCCAGTGGGTGTCGTCAGTGCAGAGACTTCGAGCGGTCCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLyshThrSerGluArgSerGlnProArgGly 60
Qy 181 AGGCGCCCAACCATCCAGCGCGCGCGAACCCAGGCGAGTCTCGGCTCAGCCGCGG 240
Db 61 ArgArgGlnProIleProlyGlnAlaArgProGluGlyArgshThrTrpAlaGlnProGly 80
Qy 241 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 301 CGCGGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
```

RESULT 2

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US-11-022-562-211
; Sequence 211, Application US/11022562
; Publication No. US20050249742A1
; GENERAL INFORMATION:
; APPLICANT: Shiseido, Ryoji M.
; APPLICANT: Ruprecht, Jiang
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR MODULATING
; FILE REFERENCE: A CYTOTOXIC T LYMPHOCYTE IMMUNE RESPONSE
; CURRENT APPLICATION NUMBER: US/11/022,562
; PRIOR FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: PCT/US03/20322
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: 60/392718
; PRIOR FILING DATE: 2002-06-27
; NUMBER OF SEQ ID NOS: 340
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 211
; LENGTH: 2280
; TYPE: PRT
; ORGANISM: Hepatitis C Virus
US-11-022-562-211
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Alignment Scores:
Pred. No.: 5,566-44 Length: 2280
Score: 580.00 Matches: 104
Percent Similarity: 92.17% Conservative: 2
Best Local Similarity: 90.43% Mismatches: 9
Query Match: 90.91% Indels: 0
DB: 7 Gaps: 0
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US-09-873-224B-147 (1-346) x US-11-022-562-211 (1-2280)

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Qy 1 ATGAGCACACTTCTTAAACCAAGAAACCAAGAAACCAACCAACCGGCACAG 60
Db 1 MetSerThrAsnProlyProGlnArglyshThryAsGAsnthRasnarGArgProGln 20
Qy 61 GACGTTAAAGTCCAGCGCGGGTGCAGATCGTGTGGAGTTTACGTGCTACCCAGCAGG 120
Db 21 AspVallysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
Qy 121 GGGCCCCAGTGGGTGTCGTCAGTGCAGAGACTTCGAGCGGTCCAACTCGCAGT 180
Db 41 GlyProThrLeuGlyValArgAlaThrArgLyshThrSerGluArgSerGlnProArgGly 60
Qy 181 AGGCGCCCAACCATCCAGCGCGCGCGAACCCAGGCGAGTCTCGGCTCAGCCGCGG 240
Db 61 ArgArgGlnProIleProlyGlnAlaArgProGluGlyArgshThrTrpAlaGlnProGly 80
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Qy 241 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyLeuGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 301 CGCGGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
```

RESULT 3

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US-11-149-462-8
; Sequence 8, Application US/11149462
; Publication No. US20060002978A1
; GENERAL INFORMATION:
; APPLICANT: Shea, Lonnie D.
; APPLICANT: Whittlesey, Kevin
; APPLICANT: Yang, Yang
; APPLICANT: Rives, Christopher
; APPLICANT: Rovedo, Mark
; APPLICANT: Iskandar, Bermans
; TITLE OF INVENTION: Biodegradable Scaffolds and Uses Thereof
; FILE REFERENCE: 1720-1-011N
; CURRENT APPLICATION NUMBER: US/11/149,462
; CURRENT FILING DATE: 2005-06-09
; PRIOR APPLICATION NUMBER: 60/578,785
; PRIOR FILING DATE: 2004-06-10
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-149-462-8
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Alignment Scores:
Pred. No.: 0,535 Length: 288
Score: 88.50 Matches: 38
Percent Similarity: 38.52% Conservative: 9
Best Local Similarity: 31.15% Mismatches: 35
Query Match: 13.87% Indels: 40
DB: 7 Gaps: 5
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US-09-873-224B-147 (1-346) x US-11-149-462-8 (1-288)

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Qy 73 CCAGCGCGCGTGCAGATCGTTGGT-----GGAGTT----- 102
Db 16 ProGlyGlyCysGlnIleSerGlyArgAlaAlaArgGlyCysAsnGlyIleProGlyAla 35
Qy 103 -----TACGTGCTTACACGAGCGGGCCCCAGTTGGGTGTCGTCGAGTGGCG 150
Db 36 AlaAlaTrpGluAlaAlaLeuProArgArgProArg-----Arg 49
Qy 151 AAGACTTCCGAGCGGTCCGCACTCGCAGTAGGCGCCCAACCCATCCCGCGGCGCGGA 210
Db 50 HisProSerValAsnProArgSerArgAlaAlaGlySerProArgThrArgGlyArg 69
Qy 211 ACCGAGGCGAGTCTCT-----GGGCTCAGCCCGGGTACCCT 246
Db 70 ThrGluGluArg-ProSerGlySerArgLeuGlyAspArgGlyArgAlaLeuPr 89
Qy 247 TGGCCCCCTATATGGGAATGAGGGCTGCGGGT----- 277
Db 89 oGlyGlyArgLeuGlyGlyArgGlyArgAlaProGluArgValGlyGlyArgGly 109
Qy 278 ----GGGCGAGGTGGTCTCTGTCCTCCCGCGCGGCTCTCGCCGTCGGGGCCCAATGAC 333
Db 109 yArgGlyArgGlyThrAlaAlaProArgAlaAlaProAlaAlaArgGlySerArgProGly 129
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Qy 334 CCCC 337
Db 129 yPro 130
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RESULT 4

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US-11-054-281-36
; Sequence 36, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; CURRENT APPLICATION NUMBER: US/11/054,281
; CURRENT FILING DATE: 2005-02-08
; PRIOR APPLICATION NUMBER: 60/261,014
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,018
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/318,410
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,013
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,026
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,018
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,013
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,026
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 10/044,564
; PRIOR FILING DATE: 2002-01-11
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; TYPE: PRT
; LENGTH: 591
; ORGANISM: Homo sapiens
US-11-054-281-36

Alignment Scores:
Pred. No.: 0.474 Length: 591
Score: 88.50 Matches: 31
Percent Similarity: 40.21% Conservative: 8
Best Local Similarity: 31.96% Mismatches: 35
Query Match: 13.87% Indels: 23
DB: 7 Gaps: 5

US-09-873-224b-147 (1-346) x US-11-054-281-36 (1-591)
QY 41 ACACCAACNCCGCGCACAGGAGTTAGTTCACAGCGCGCGTTCAGATCGTTGGTGAG 100
Db 106 ThrProIleProAlaCysArgProMetCysGluGlnAlaArgLeuArgCysAlaProIle 125
QY 101 TTTACGTGTCTACACGCGAGGCGCCCGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 160
Db 126 MetGluGlnPheAsnPheGlyTrpProAsp-----SerLeuAspCysAlaArgLeuPro 143
QY 161 AGCGGTCTGCAAC-----CTCGCAGTAGGCGCCACCCATCCCGAGG 202
Db 144 Thr---ArgAsnAspProHisAlaLeuCysMetGluAlaProGluAsnAlaThrAlaGly 162
QY 203 CGCGCGCAACCGAGGCGAGGT-----CCTGGGCTCAGC 235
Db 163 ProAlaGluProHisGlyLeuGlyMetLeuProValAlaProArgProAlaArgPro 182
QY 236 CGGGGTACCCCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGGCGAGGT 286
Db 183 ProGlyAspLeuGlyPro-----GlyAlaGlyGlySerGly 194

RESULT 5
US-11-054-281-128
; Sequence 128, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-240CIP
; CURRENT APPLICATION NUMBER: US/11/054,281
; CURRENT FILING DATE: 2005-02-08
```

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US-11-054-281-128
; PRIOR APPLICATION NUMBER: 60/261,014
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,018
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/318,410
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,013
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,026
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,029
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 10/044,564
; PRIOR FILING DATE: 2002-01-11
; NUMBER OF SEQ ID NOS: 324
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 128
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-281-128

Alignment Scores:
Pred. No.: 0.474 Length: 591
Score: 88.50 Matches: 31
Percent Similarity: 40.21% Conservative: 8
Best Local Similarity: 31.96% Mismatches: 35
Query Match: 13.87% Indels: 23
DB: 7 Gaps: 5

US-09-873-224b-147 (1-346) x US-11-054-281-128 (1-591)
QY 41 ACACCAACNCCGCGCACAGGAGTTAGTTCACAGCGCGCGTTCAGATCGTTGGTGAG 100
Db 106 ThrProIleProAlaCysArgProMetCysGluGlnAlaArgLeuArgCysAlaProIle 125
QY 101 TTTACGTGTCTACACGCGAGGCGCCCGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 160
Db 126 MetGluGlnPheAsnPheGlyTrpProAsp-----SerLeuAspCysAlaArgLeuPro 143
QY 161 AGCGGTCTGCAAC-----CTCGCAGTAGGCGCCACCCATCCCGAGG 202
Db 144 Thr---ArgAsnAspProHisAlaLeuCysMetGluAlaProGluAsnAlaThrAlaGly 162
QY 203 CGCGCGCAACCGAGGCGAGGT-----CCTGGGCTCAGC 235
Db 163 ProAlaGluProHisGlyLeuGlyMetLeuProValAlaProArgProAlaArgPro 182
QY 236 CGGGGTACCCCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGGCGAGGT 286
Db 183 ProGlyAspLeuGlyPro-----GlyAlaGlyGlySerGly 194

RESULT 6
US-10-821-234-871
; Sequence 871, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt seq_genes Version 1.0
; SEQ ID NO 871
; LENGTH: 479
```

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-871

Alignment Scores:
Pred. No.: 0.897 Length: 479
Score: 85.50 Matches: 36
Percent Similarity: 36.36% Conservative: 8
Best Local Similarity: 29.75% Mismatches: 38
Query Match: 13.40% Indels: 39
DB: 6 Gaps: 4

US-09-873-224B-147 (1-346) x US-10-821-234-871 (1-479)

QY 81 CGGTGAGATCGTGTGGAGTTACGTCTACACGCGGGGCC-----CCA 128
Db 37 LysSerProGlnThrTrpProArgArgThrProArgSerProGluProAlaPro 56
QY 129 GTTGGTGTGGTGCAGTGCAGCGGACGACTCCGAGCGGTGCGACCTCGC-----177
Db 57 -SerGlyValArgGlySerThrTrpThrArgArgAspThrProArgArgAlaGlyPr 76
QY 178 -----AGTAGGCGCCAAACCATCCCC-- 198
Db 76 oThrAlaLeuSerArgTyrValGlyHisLeuTrpMetGlyArgArgProProSerProGl 96
QY 199 -----AGGGCGCGCCCGAACCAGGGCGAG 221
Db 96 uAlaArgGlyProValProArgSerSerAlaAlaSerArgAlaArgArgSer-LeuAla 116
QY 222 GTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGCGTGGGTGGGC 281
Db 116 erProGlyIleSerProGlyProLeuThrAlaThrIleGlyGlyAlaValAlaGlyGly 136
QY 282 AGGGTGGCTCTGTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGACCCCGGC 340
Db 136 ly-----ProArgGlnGlyArgAlaGluAlaHisLysGluValPheProGly 151

RESULT 7
US-11-186-284-33
; Sequence 33, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 1466
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-33

Alignment Scores:
Pred. No.: 1.22 Length: 1496
Score: 83.00 Matches: 32
Percent Similarity: 40.95% Conservative: 11

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-871

Alignment Scores:
Pred. No.: 1.23 Length: 1466
Score: 83.00 Matches: 34
Percent Similarity: 38.89% Conservative: 8
Best Local Similarity: 31.48% Mismatches: 47
Query Match: 13.01% Indels: 19
DB: 7 Gaps: 4

US-09-873-224B-147 (1-346) x US-11-186-284-33 (1-1466)

QY 55 CCACAGGACGTTAAGTTCACGAGCGGCTCAGATCGTTGGTGGAGTTTACGTGCTACCA 114
Db 838 ProProGlyValAlaGlyProProGlyGlySerGlyProAlaGly-----852
QY 115 GCGAGGGCCCCCGGTTGGTGGTGCAGTGCAGTCCGAGCGGTGCGCAACCT 174
Db 853 ProProGlyProGln--GlyValLysGlyGluArgGlySer-ProGlyGlyProGlyAl 871
QY 175 CGCA-----GTAGGCGCCAAACCATCCCCAGG 201
Db 871 aAlaGlyPheProGlyAlaArgGlyLeuProGlyProProGlySerAsnGlyAsnProGl 891
QY 202 GCGCGCCGAACGAGGCGAGGTCTGGCTCAGCCCGGTACCTTGGCCCTATATGGG 261
Db 891 yProProGlyProSerGlySerProGly---LysAspGlyProProGlyProAlaGlyAs 910
QY 262 AATGAGGCTCGCGGTGGCGAGGTGGCTCTGTCTCCCGCGCGGCTCTCGCCCGTGGTGG 321
Db 910 nThrGlyAlaProGlySerProGlyValSerGlyProLysGlyAspAlaGlyGlnProGl 930
QY 322 GCGCCAAATGACCCCGCGCA 343
Db 930 yGluLysGlySerProGlyAla 937

RESULT 8
US-11-186-284-35
; Sequence 35, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 1496
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-35

Alignment Scores:
Pred. No.: 1.22 Length: 1496
Score: 83.00 Matches: 32
Percent Similarity: 40.95% Conservative: 11
```

Best Local Similarity: 30.48% Mismatches: 51
Query Match: 13.01% Indels: 11
DB: 7 Gaps: 4
US-09-873-224B-147 (1-346) x US-11-186-284-35 (1-1496)
QY 52 CGGCCACAGGAGTTAAGTTCACAGCGCGGTCAGATCGTGTGGAGTTACGTGCTA 111
Db 688 LysProGlyAspGlnGlyValProGlyGlyProGlyAlaValGlyProLeuGlyProArg 707
QY 112 CCACGACAGGGG-----CCCAAGTGGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGG 165
Db 708 GlyGluArgGlyAsnProGlyGluArgGlyGluProGlyLeu ThrGlyLeuProGlyG1 727
QY 166 TCGCAACCTCGCAGTAGGCGCAACCCATCCACAGCGCGCGCAACCGAGGCGCAGGTCC 225
Db 727 uLysGlyMetAlaGlyGlyHisGlyProAspGlyProLysGlySerPro-----GlyPr 745
QY 226 TGGGCTCAGCCCGGTACCTTGGGCCCC-----TATATGGGAATGAGGGCT----- 271
Db 745 oSerGlyThrProGlyAspThrGlyProGlyLeuGlnGlyMetProGlyGluArgG1 765
QY 272 ----CGGGTGGCAGGTTGGTCTCTGTCCTCCGCGGGCTCTCGCCCGTCTGGGGCCCA 327
Db 765 yLeaAlaGlyThrProGlyProLysGlyAspArgGlyIleGlyGluLysGlyAlaG1 785
QY 328 AATGACCCCGCGC 340
Db 785 uGlyThrAlaGly 789

RESULT 9

US-11-050-346-68
; Sequence 68, Application US/11050346
; Publication No. US20060002924A1
; GENERAL INFORMATION:
; APPLICANT: BODMER, MARK WILLIAM
; APPLICANT: CHAMPION, BRIAN ROBERT
; APPLICANT: LENNARD, ANDREW CHRISTOPHER
; APPLICANT: MCKENZIE, GRAHAME JAMES
; APPLICANT: TUGAL, TAMARA
; APPLICANT: WARD, GEORGE ALBERT
; TITLE OF INVENTION: CONJUGATE OF NOTCH SIGNALING PATHWAY MODULATORS AND
; TITLE OF INVENTION: THEIR USE IN MEDICAL TREATMENT
; FILE REFERENCE: 674525-2016
; CURRENT FILING DATE: 2005-02-03
; PRIOR FILING DATE: 2003-05-24
; PRIOR FILING DATE: 2003-05-24
; PRIOR FILING DATE: 2003-04-04
; PRIOR FILING DATE: 2003-01-07
; PRIOR FILING DATE: 2003-01-07
; PRIOR FILING DATE: 2003-08-03
; PRIOR FILING DATE: 2002-08-03
; PRIOR FILING DATE: 2002-09-07
; PRIOR FILING DATE: 2002-09-10
; PRIOR FILING DATE: 2002-09-10
; PRIOR FILING DATE: 2002-09-10
; PRIOR FILING DATE: 2002-09-10
; PRIOR FILING DATE: 2002-11-13
; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 68
; LENGTH: 2471
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-346-68
Alignment Scores:

Pred. No.: 1.13 Length: 2471
Score: 83.00 Matches: 28
Percent Similarity: 39.36% Conservative: 9
Best Local Similarity: 29.79% Mismatches: 37
Query Match: 12.77% Indels: 20
DB: 7 Gaps: 4
US-09-873-224B-147 (1-346) x US-11-050-346-68 (1-2471)
QY 346 TCCTCGCGCGGGGTCATTGTGGGCCCCACGACGCGGAGAGCGCGCGGGGACAGGAGCC 287
Db 1050 SerCysProLeuGlyTyrThrGly-----LysAsnCysGlnThrLeuVal 1064
QY 286 ACCCTGCCACCCGACGCCCTCATTCCTATATAGGCGGCACAGGTACCCGCGCTGAGCCC 227
Db 1065 AsnLeuCysSerArgSerProCysLysAsn-----LysGlyThrCysValGlnLys 1081
QY 226 AGGACTGCCCTCGTTCGGCGCGCGCTGGGGATGGTGGCGCTACTCGCAGGTGGG 167
Db 1082 LysAlaGluSerGlnCysLeuCysProSerGlyTyrAlaGlyAlaTyrCysAspValPro 1101
QY 166 ACCGCTCGGAAGTCTTGGCGCACTGCACGCACACCCCACTGGG----- 125
Db 1102 AsnVal-----SerCysAspIleAlaLaserArgArgGlyValLeuValGluHisLeu 1119
QY 124 -----GGCCCTCGTGTGTAGCACGTAACCTCCAC 95
Db 1120 CysGlnHisSerGlyValCysIleAsnAlaGlyAsnThrHis 1133

RESULT 10

US-10-055-877-212
; Sequence 212, Application US/1005877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Vellizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Ratelli, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Cahterine
; APPLICANT: Eisen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shimkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ference
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT FILING DATE: 2002-01-22
; PRIOR FILING DATE: 2002-01-22
; PRIOR FILING DATE: 2001-01-19
; PRIOR FILING DATE: 2001-01-19
; PRIOR FILING DATE: 2001-01-23
; PRIOR FILING DATE: 2001-01-24

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; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 212
; LENGTH: 1664
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-055-877-212

Alignment Scores:
Pred. No.: 1.33 Length: 1664
Score: 82.50 Matches: 32
Percent Similarity: 35.20% Conservative: 12
Best Local Similarity: 25.60% Mismatches: 42
Query Match: 12.69% Indels: 39
DB: 6 Gaps: 6

US-09-873-224B-147 (1-346) x US-10-055-877-212 (1-1664)
Qy 343 TCGCGCGGGGTCAATTTGGGCCCCACGACGCGGAGAGCGCGGGGACAGAGCCACC 284
Db 1431 CysAlaAnGlyHisCysAsnAlaSerSerGlyGluCysHisCysAsnLeuGlyPheThr 1450
Qy 283 CTGCCACCCAGCCCTCATTCATCCCATATAGGGGCCAAGGTT----- 242
Db 1451 GlyProSerCysGluGlnSerCysProSerGlyLysTyrglyLeuAsnCysThrLeuAsp 1470
Qy 241 -----ACCGGGCTGAGGCC-----AGGACCTGCCT--- 215
Db 1471 CysGluCysTyrglyGlnAlaArgCysAspProValGlnGlyCysCysAspCysProPro 1490
Qy 214 -----CGTTTCGGCGCGCCCTGGGATGGGTGGCGCTACTGCG 176
Db 1491 GlyArgTyrglySerArgCysGlnPheSerCysProAsnGlyPheTyrglyTyrcys 1510
Qy 175 GAGTTGCGACCGCTCGGAATCTTTGGCGCATGTCACGCAAC----- 134
Db 1511 SerGlnSerCys-----SerCysGlnAsnGlyAlaHisCysAspGlyAlaAspGly 1527
Qy 133 -----CCAACTGGGGGCCCTCGCTGGTGGTAGCAGTAACTCCACCAAGATCT 86
Db 1528 ArgCysLeuCysProAlaGlyPheGlnValLysLeuAlaAsnLys-----LysLysAsn 1545
Qy 85 GACCGCCCGCTGGGA 71
Db 1546 AspLeuGluLeuGly 1550

RESULT 11
US-11-135-855-44
; Sequence 44, Application US/11135855
; Publication No. US2005025557A1
; GENERAL INFORMATION:
; APPLICANT: SMITHKLINE BEECHAM CORPORATION
; TITLE OF INVENTION: SMITHKLINE BEECHAM P.I.C.
; FILE REFERENCE: NOVEL COMPOUNDS
; CURRENT APPLICATION NUMBER: US/11/135,855
; CURRENT FILING DATE: 2005-05-24
; PRIOR APPLICATION NUMBER: US/10/203,708
; PRIOR FILING DATE: 2001-08-17

; PRIOR APPLICATION NUMBER: 2002-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/04703
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,172
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: 60/186,084
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-135-855-44

Alignment Scores:
Pred. No.: 2.57 Length: 355
Score: 80.50 Matches: 30
Percent Similarity: 38.10% Conservative: 10
Best Local Similarity: 28.57% Mismatches: 20
Query Match: 12.62% Indels: 45
DB: 7 Gaps: 7

US-09-873-224B-147 (1-346) x US-11-135-855-44 (1-355)
Qy 97 GGAGTTTACGTGTACCAACGAGGGGCCCGAGTGGGTGTGCGTGCAGTGGCGAAGACT 156
Db 202 GlyLeuTrpLeuPro-----GlyPro-----ValGlyArgThr 213
Qy 157 TCCGAGGGTCTGCAA-----CCTCGAGTAGGCGC 186
Db 214 GlyArgArgSerProCysGlyProLeuArgSerSerLeuLysValProArgSerGlnVal 233
Qy 187 CAACCCATCCCGAGGGCGCGCCAGACCGAGGCGAGTCTCTGGCTCAG----- 234
Db 234 Gln-----AlaArgAspProLeuGlyGluGlyArgGlyGlyLeuArg 249
Qy 235 ---CCCGGGTACCTTGGCCCTATAT---GGGAATGAGGGCTCGCGGTGG----- 279
Db 250 AspProAspLeuProTrpProIleGluGlyGlyGlnGlyValGlyThrPheArgArg 269
Qy 280 -----GCAGGTGCTCTGTGCC 297
Db 270 ProValLeuLeuGlyGlyValSerProAlaGluAlaGlnArgAlaTrpTrpValLeuGlu 289
Qy 298 CCGCGCGGCTCTCGC 312
Db 290 ProProGlyAlaArg 294

RESULT 12
US-11-054-281-129
; Sequence 129, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-240CIP
; CURRENT APPLICATION NUMBER: US/11/054,281
; CURRENT FILING DATE: 2005-02-08
; PRIOR APPLICATION NUMBER: 60/261,014
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,018
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/318,410
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,013
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,026
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,029
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-08-17
```

US-09-873-224B-147 (1-346) x US-11-054-281-126 (1-592)

US-09-873-224B-147 (1-346) x US-11-054-281-129 (1-549)

RESULT 14

```

US-11-054-281-127
; Sequence 127, Application US/11054281
; Publication NO. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-240CIP
; CURRENT APPLICATION NUMBER: US/11/054,281

```

GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same

Alignment Scores:

Pred. No.:	2.61	Length:	592
Assignment Scores:		Matches:	30
Score:	80.00	Conservative:	10
Percent Similarity:	42.5%	Mismatches:	42
Best Local Similarity:	31.91%	Indels:	12
Query Match:	12.54%	Gaps:	5
DB:	7		

```
US-09-873-224B-147 (1-346) x US-11-054-281-127 (1-592)
QY 41 ACACCAACNCGGCGCACAGGAGTTAAGTTCCTCCAGGCGGGTGCAGATCGTGTGGAG 100
Db 107 ThrProIleProAlaCysArgProMetCysGluGlnAlaArgLeuArgCysAlaProIle 126
QY 101 TTTAGTCTACACGCGAGGCGCCCGAGTTGGTGTGGTGCAGTGGCGAGACTTCG 160
Db 127 MetGluGlnPheAsnPheGlyTrpProAsp-----SerLeuAspCysAlaArgLeuPro 144
QY 161 AGCGGTGCGAAC-----CTCGCAGTAGGCGCAACCCATCCCGAGG 202
Db 145 Thr---ArgAsnAspProHisAlaLeuCysMetGluAlaProGluAsnAlaThrAlaGly 163
QY 203 CGCGCCGACAGGAGGCTCTGGCTCAGCGGCTACCCCTTGGCCCTATATG--- 259
Db 164 ProThrGluProHisGlyLeuGlyMetLeuProValAlaProArgProAlaArgPro 183
QY 260 ---GGAATGAGGCTGCGGGT---GGGAGGGTGGCTCTGT 295
Db 184 ProGlyAspSerAlaProGlyProGlySerGlyGlyThrCys 197

RESULT 15
US-10-055-877-213
; Sequence 213, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Kateili, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Catherine
; APPLICANT: Eisen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shinkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ference
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT APPLICATION NUMBER: US/10/055,877
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262,892
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,598
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/263,799
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
```

```
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 213
; LENGTH: 1620
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-055-877-213

Alignment Scores:
Pred. No.: 2.44 Length: 1620
Score: 79.50 Matches: 28
Percent Similarity: 35.92% Conservative: 9
Best Local Similarity: 27.18% Mismatches: 37
Query Match: 12.23% Indels: 29
DB: 6 Gaps: 5

US-09-873-224B-147 (1-346) x US-10-055-877-213 (1-1620)
QY 343 TGC GCGCGGGGTCTATTTGGGCCCCACGACGCGGCGAGAGCCGCGGGGACAGGCCACC 284
Db 1495 CysAlaAsnGlyHisCysAsnAlaSerSerGlyGluCysLysCysAsnLeuGlyPheThr 1514
QY 283 CTGCCACCCCGACGCCCTCATTTCCCATATAGGGGCCAAGGGT----- 242
Db 1515 GlyProSerCysGluGlnSerCysProSerGlyLysTyrGlyLeuAsnCysThrLeuAsp 1534
QY 241 -----ACCGGGCTGAGGCC-----AGGACCTGGCCT--- 215
Db 1535 CysGluCysTyrGlyGlnAlaArgCysAspProValGlnGlyCysCysAspCysProPro 1554
QY 214 -----CGGTTGCGCGCGCCCTGGGGATGGTGGCGCTACTGC 176
Db 1555 GlyArgTyrGlySerArgCysGlnPheSerCysProAsnGlyPheTyrGlyTyrCys 1574
QY 175 GAGGTTCGACCGCTCGGAAGTCTTGGCACTTGGCACTGCGCACACCCCACTGGG-----GGC 122
Db 1575 SerGlnSerCys-----SerCysGlnAsnGlyAlaHisCysAspGlyAlaAspGly 1591
QY 121 CCCTGCGTG 113
Db 1592 ArgCysLeu 1594

Search completed: January 28, 2006, 04:48:30
Job time : 12.5 secs
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2006, 23:24:00 ; Search time 146 Seconds
(without alignments)
4212.578 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 346
Sequence: 1 atgagcacactctctaacc.....aaatgaccccgcgagga 346

Sforing table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1303057 seqs, 888780828 residues

Word size: 0

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents_NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	296	85.5	345	US-09-878-281A-147	Sequence 147, App
2	260	75.1	309	US-08-836-075A-49	Sequence 49, Appl
3	43	12.4	378	US-08-931-855B-13	Sequence 13, Appl
4	43	12.4	549	US-08-441-971-60	Sequence 60, Appl
5	43	12.4	549	US-08-221-653-60	Sequence 60, Appl
6	43	12.4	549	US-08-442-144A-60	Sequence 60, Appl
7	43	12.4	549	US-08-441-970-60	Sequence 60, Appl
8	43	12.4	573	US-08-290-665A-141	Sequence 141, App
9	43	12.4	573	US-09-194-949A-5	Sequence 5, Appl
10	43	12.4	573	PT-US95-10398-141	Sequence 141, App
11	43	12.4	831	US-08-836-075A-65	Sequence 65, Appl
12	40	11.6	573	US-08-290-665A-142	Sequence 142, App
13	40	11.6	573	PT-US95-10398-142	Sequence 142, App
14	38	11.0	573	US-08-290-665A-136	Sequence 136, App
15	38	11.0	573	PT-US95-10398-136	Sequence 136, App
16	35	10.1	573	US-08-290-665A-137	Sequence 137, App
17	35	10.1	573	US-08-290-665A-138	Sequence 138, App
18	35	10.1	573	US-08-290-665A-139	Sequence 139, App
19	35	10.1	573	PT-US95-10398-137	Sequence 137, App
20	35	10.1	573	PT-US95-10398-138	Sequence 138, App
21	35	10.1	573	PT-US95-10398-139	Sequence 139, App
22	35	10.1	803	US-08-157-235-1	Sequence 1, Appl
23	35	10.1	803	US-08-157-235-2	Sequence 2, Appl
24	35	10.1	803	US-08-157-235-3	Sequence 3, Appl

25	35	10.1	803	2	US-08-157-235-4	Sequence 4, Appl
26	34	9.8	573	2	US-08-290-665A-135	Sequence 135, App
27	34	9.8	573	6	PT-US95-10398-135	Sequence 135, App
28	34	9.8	803	2	US-08-157-235-5	Sequence 5, Appl
29	31	9.0	183	2	US-07-681-703B-21	Sequence 21, Appl
30	31	9.0	183	2	US-08-407-410B-21	Sequence 21, Appl
31	31	9.0	183	2	US-08-485-500-21	Sequence 21, Appl
32	31	9.0	183	6	PT-US91-02370-21	Sequence 21, Appl
33	31	9.0	270	2	US-07-681-703B-23	Sequence 23, Appl
34	31	9.0	270	2	US-08-407-410B-23	Sequence 23, Appl
35	31	9.0	270	2	US-08-485-500-23	Sequence 23, Appl
36	31	9.0	270	6	PT-US91-02370-23	Sequence 23, Appl
37	31	9.0	273	2	US-07-681-703B-19	Sequence 19, Appl
38	31	9.0	273	2	US-08-407-410B-19	Sequence 19, Appl
39	31	9.0	273	2	US-08-485-500-19	Sequence 19, Appl
40	31	9.0	273	6	PT-US91-02370-19	Sequence 19, Appl
41	31	9.0	300	3	US-10-071-867-16	Sequence 16, Appl
42	31	9.0	306	2	US-08-537-811-35	Sequence 35, Appl
43	31	9.0	327	3	US-08-836-075A-1	Sequence 1, Appl
44	31	9.0	355	3	US-08-444-818-104	Sequence 104, App
45	31	9.0	355	3	US-08-444-818-106	Sequence 106, App

ALIGNMENTS

RESULT 1

US-09-878-281A-147

; Sequence 147, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

; TITLE OF INVENTION: and therapy

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 147

; LENGTH: 345

; TYPE: DNA

; ORGANISM: hepatitis C virus

US-09-878-281A-147

Query Match 85.5%; Score 296; DB 3; Length 345;

Best Local Similarity 100.0%; Pred. No. 1.1e-137;

Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	51	COGGCCACAGGACGTTAAAGTTC	CCAGGGCGGTCAGATCGTTGGTGGAGTTTACGTGCT	110
Db	50	COGGCCACAGGACGTTAAAGTTC	CCAGGGCGGTCAGATCGTTGGTGGAGTTTACGTGCT	109
Qy	111	ACCACGAGGGGCCCCAGTTGGTGTG	CGTGGCGCAAGACTTCCAGCGGTCGCA	170
Db	110	ACCACGAGGGGCCCCAGTTGGTGTG	CGTGGCGCAAGACTTCCAGCGGTCGCA	169
Qy	171	ACCTCGAGTAGGCGGCAACCCATCC	CGAGGGCGGCGGACCGAGGCGGCTCTGGGC	230
Db	170	ACCTCGAGTAGGCGGCAACCCATCC	CGAGGGCGGCGGACCGAGGCGGCTCTGGGC	229
Qy	231	TCAGCGCGGGTACCTTGGCCCTATAT	GGGAATGAGGCTCGGGTGGGCGAGGTGGCT	290
Db	230	TCAGCGCGGGTACCTTGGCCCTATAT	GGGAATGAGGCTCGGGTGGGCGAGGTGGCT	289
Qy	291	CCTGTCCCGCGGGCTCTCGCCCTCG	CGCCGCAAAATGACCCCGCGCAGGA	346
Db	290	CCTGTCCCGCGGGCTCTCGCCCTCG	CGCCGCAAAATGACCCCGCGCAGGA	345

RESULT 2

US-08-836-075A-49

; Sequence 49, Application US/09836075A

```
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836.075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-49

Query Match 75.1%; Score 260; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 9.2e-120; Mismatches 0; Indels 0; Gaps 0;
Matches 260; Conservative 0;

Qy 51 CCGGCCACAGACGTTAAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 110
Db 50 CCGGCCACAGACGTTAAAGTTCCACAGGCGCGGTCCAGATCGTTGGTGAGTTTACGTGCT 109
Qy 111 ACCAGCAGAGGCGGCCCCAGTTGGGTGTCGTGCAGTCGCGCAAGACTTCCGAGCGGTGCGCA 170
Db 110 ACCAGCAGAGGCGGCCCCAGTTGGGTGTCGTGCAGTCGCGCAAGACTTCCGAGCGGTGCGCA 169
Qy 171 ACCTGCGAGTAGGCGCCACCAACCCACCGGCGCGCCGACCCAGGCGCAGGTCTCTGGGC 230
Db 170 ACCTGCGAGTAGGCGCCACCAACCCACCGGCGCGCCGACCCAGGCGCAGGTCTCTGGGC 229
Qy 231 TCAGCCCGGGTACCTTCGCGCCCTATATGGAATGAGGCTCGCGGTGGCGAGGCTGCT 290
Db 230 TCAGCCCGGGTACCTTCGCGCCCTATATGGAATGAGGCTCGCGGTGGCGAGGCTGCT 289
Qy 291 CCTGTCCCGCGCGCTCTC 310
Db 290 CCTGTCCCGCGCGCTCTC 309
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RESULT 3

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US-08-931-855B-13
; Sequence 13, Application US/08931855B
; Patent No. 6692751
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; APPLICANT: INCHAUSPE, GENEVIEVE
; APPLICANT: NASOFF, MARC S.
; APPLICANT: PRINCE, ALFRED M.
; APPLICANT: HELTING, TORSTEN B.
; APPLICANT: DREVIN, HAKAN
; APPLICANT: NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/931.855B
; FILING DATE: Sep 16, 1997
; CLASSIFICATION: 435
; CLASSIFICATION: 435
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
; FILING DATE: 27-AUG-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: James P. Hillman Esq.
; REGISTRATION NUMBER: 29748
; REFERENCE/DOCKET NUMBER: 55467/69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 651 3991
; TELEFAX: (510) 651 5991
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: no
; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
; US-08-931-855B-13
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; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yanko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
; US-08-442-144A-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254
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Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 7
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 MAY 1991
; ATTORNEY/AGENT INFORMATION:

; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
; US-08-441-970-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254
|||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; AND THE USE OF REAGENTS DERIVED FROM THESE
; SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1

US-08-290-665A-141

Query Match 12.4%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Gaps 0; Indels 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 9

US-09-194-949A-5

; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17

; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06

; PRIOR APPLICATION NUMBER: 60/020,494

; PRIOR FILING DATE: 1996-06-11

; PRIOR APPLICATION NUMBER: 60/033,534

; PRIOR FILING DATE: 1996-12-20

; PRIOR APPLICATION NUMBER: 08/865,823

; PRIOR FILING DATE: 1997-05-30

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 5

; LENGTH: 573

; TYPE: DNA

; ORGANISM: Hepatitis C Virus

US-09-194-949A-5

Query Match 12.4%; Score 43; DB 3; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Gaps 0; Indels 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 10

PCT-US95-10398-141

; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R. H. AND

; APPLICANT: PURCELL, R. H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428

FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 141:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: Z1

PCT-US95-10398-141

Query Match

Best Local Similarity 100.0%; Pred. No. 1.2e-11;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 11

US-08-836-075A-65

; Sequence 65, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

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;
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-65

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
      |||||||
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 12
US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; US-08-290-665A-142

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
      |||||||
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 13
PCT-US95-10398-142
; Sequence 142, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.7e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251
      |||||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251

RESULT 14
US-08-290-665A-136
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; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-65

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.7e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251
      |||||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251

RESULT 13
PCT-US95-10398-142
; Sequence 142, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.7e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251
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Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251

RESULT 14
US-08-290-665A-136
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; Sequence 136, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; PCT-US95-10398-136

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Best Local Similarity 100.0%; Pred. No. 3.6e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 262 AATGAGGCTGCGGTGGGCGAGGTGGCTCTCTGTCCCC 299

RESULT 15
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; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA

; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.6e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|||||
Db 262 AATGAGGCTGCGGTGGGCGAGGTGGCTCTCTGTCCCC 299

Search completed: January 30, 2006, 01:45:55
Job time : 146 secs

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OM nucleic - nucleic search, using sw model

Run on: January 30, 2006, 01:36:39 ; Search time 807 Seconds
(without alignments)
3545.483 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 346
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Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 9793542 seqs, 4134689005 residues

Word size : 0
Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

Database : Published Applications NA Main:
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	296	85.5	345	3	US-09-873-224-147
2	296	85.5	346	3	US-09-899-046-147
3	296	85.5	346	3	US-09-878-281-147
4	260	75.1	309	3	US-09-851-138-49
5	43	12.4	378	8	US-10-677-956-13
6	43	12.4	573	3	US-09-194-949-5
7	43	12.4	573	9	US-10-664-391-5
8	43	12.4	831	3	US-09-851-138-65
9	31	9.0	152	3	US-09-921-397-39
10	31	9.0	234	3	US-09-921-397-41
11	31	9.0	300	6	US-10-071-867-16
12	31	9.0	310	3	US-09-921-397-114
13	31	9.0	327	3	US-09-851-138-1
14	31	9.0	339	3	US-09-921-397-115
15	31	9.0	360	3	US-09-306-780-3
16	31	9.0	378	8	US-10-677-956-7
17	31	9.0	378	8	US-10-677-956-9
18	31	9.0	450	3	US-09-306-780-5
19	31	9.0	480	6	US-10-071-867-15
20	31	9.0	480	9	US-10-664-038-11
21	31	9.0	480	9	US-10-664-038-12
22	31	9.0	480	9	US-10-664-038-13
23	31	9.0	480	9	US-10-664-038-14

24	31	9.0	480	9	US-10-664-038-15	Sequence 15, Appl
25	31	9.0	480	3	US-10-664-038-16	Sequence 16, Appl
26	31	9.0	483	3	US-09-306-780-7	Sequence 7, Appl
27	31	9.0	499	9	US-10-664-038-2	Sequence 2, Appl
28	31	9.0	528	3	US-09-306-780-19	Sequence 19, Appl
29	31	9.0	540	6	US-10-150-283-2	Sequence 2, Appl
30	31	9.0	573	3	US-09-306-780-9	Sequence 9, Appl
31	31	9.0	595	7	US-10-601-020-1	Sequence 1, Appl
32	31	9.0	595	9	US-10-897-680A-1	Sequence 1, Appl
33	31	9.0	708	6	US-10-365-620-57	Sequence 57, Appl
34	31	9.0	708	8	US-10-912-969-59	Sequence 59, Appl
35	31	9.0	750	6	US-10-365-620-53	Sequence 53, Appl
36	31	9.0	750	8	US-10-912-969-55	Sequence 55, Appl
37	31	9.0	843	3	US-09-306-780-11	Sequence 11, Appl
38	31	9.0	1380	6	US-10-365-620-59	Sequence 59, Appl
39	31	9.0	1380	8	US-10-912-969-61	Sequence 61, Appl
40	31	9.0	1380	8	US-10-913-171-40	Sequence 40, Appl
41	31	9.0	1422	6	US-10-365-620-55	Sequence 55, Appl
42	31	9.0	1422	8	US-10-912-969-57	Sequence 57, Appl
43	31	9.0	1422	8	US-10-913-171-38	Sequence 38, Appl
44	31	9.0	2025	6	US-10-387-336-8	Sequence 8, Appl
45	31	9.0	2031	6	US-10-387-336-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..342

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;
SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      85.5%; Score 296; DB 3; Length 345;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTGAGTTCGTTGAGTTTACGTGCT 110
DB 50 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTGAGTTCGTTGAGTTTACGTGCT 109
QY 111 ACCACGCGAGGCGCCCGCAGTTGGGTGTCGTCAGTGCAGACCTTCGAGCGGTCCGA 170
DB 110 ACCACGCGAGGCGCCCGCAGTTGGGTGTCGTCAGTGCAGACCTTCGAGCGGTCCGA 169
QY 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCCAAACCGAGGCGCGGTCCGT 230
DB 170 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCCAAACCGAGGCGCGGTCCGT 229
QY 231 TCAGCCCGGGTACCTTCGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCT 290
DB 230 TCAGCCCGGGTACCTTCGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCT 289
QY 291 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGCCCCAAATGACCCCGCGCGCAGGA 346
DB 290 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGCCCCAAATGACCCCGCGCGCAGGA 345

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
;
US-09-899-046-147

Query Match      85.5%; Score 296; DB 3; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTGAGTTCGTTGAGTTTACGTGCT 110
DB 51 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTGAGTTCGTTGAGTTTACGTGCT 110

QY 111 ACCACGCGAGGCGCCCGCAGTTGGGTGTCGTCAGTGCAGACCTTCGAGCGGTCCGA 170
DB 111 ACCACGCGAGGCGCCCGCAGTTGGGTGTCGTCAGTGCAGACCTTCGAGCGGTCCGA 170
QY 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCCAAACCGAGGCGCGGTCCGT 230
DB 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCCAAACCGAGGCGCGGTCCGT 230
QY 231 TCAGCCCGGGTACCTTCGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCT 290
DB 231 TCAGCCCGGGTACCTTCGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCT 290

Query Match      85.5%; Score 296; DB 3; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 CCGGCCACAGGACGTTAAGTTCCAGGCGGCGGTGAGTTCGTTGAGTTTACGTGCT 110
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; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: no
; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-677-956-13

Query Match 12.4%; Score 43; DB 8; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 269

RESULT 6

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:

; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES

; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 5

; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.4%; Score 43; DB 3; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 7

US-10-664-391-5
; Sequence 5, Application US/10664391
; Publication No. US20050074752A1
; GENERAL INFORMATION:

; APPLICANT: Donnelly, John J.
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; APPLICANT: Fu, Tong-Ming
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES

; FILE REFERENCE: 19732YPCA
; CURRENT APPLICATION NUMBER: US/10/664,391
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 60/020,494

; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match 12.4%; Score 43; DB 9; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 8

US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS

; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

Db 227 CCGAGGCGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCCCT 269

RESULT 9

US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match 9.0%; Score 31; DB 3; Length 152;
Best Local Similarity 100.0%; Pred. No. 7.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254
DB 120 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 150

RESULT 10

US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match 9.0%; Score 31; DB 3; Length 234;
Best Local Similarity 100.0%; Pred. No. 6.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254
DB 186 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 216

RESULT 11

US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS

; FILE REFERENCE: CreaGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match 9.0%; Score 31; DB 6; Length 300;
Best Local Similarity 100.0%; Pred. No. 6.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254
DB 224 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254

RESULT 12

US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match 9.0%; Score 31; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 6.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 254
DB 264 CTTGGGCTCAGCCCGGTACCCCTTGCCCCCT 294

RESULT 13

US-09-851-138-1
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUDYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1
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Query Match          9.0%; Score 31; DB 3; Length 327;
Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTA 242
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Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTA 242
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RESULT 14

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US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 115
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115
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Query Match          9.0%; Score 31; DB 3; Length 339;
Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 224 CCGGCTCAGCCGGGTACCTTGGCCCT 254
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Db 224 CCGGCTCAGCCGGGTACCTTGGCCCT 254
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RESULT 15

US-09-306-780-3

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; Sequence 3, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINORI
; UENO, EIICHI
; ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
; IMMUNOASSAY USING THE POLYPEPTIDE.
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,780
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/841,657A
; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 360 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..360
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3
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Query Match          9.0%; Score 31; DB 3; Length 360;
Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 224 CCGGCTCAGCCGGGTACCTTGGCCCT 254
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Db 224 CCGGCTCAGCCGGGTACCTTGGCCCT 254
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Job time : 807 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 30, 2006, 01:43:31 ; Search time 1386 Seconds
(without alignments)
207.367 Million cell updates

Title: US-09-873-224B-147
Perfect score: 346
Sequence: 1 atgagcacattctctaacc.....aataqccccccgcgcacga 346

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 6059551 seqs, 415333918 residues

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Listing first 45 summaries

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3: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
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5: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
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8: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
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10: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
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SUMMARIES

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	31	9.0	2178	7	US-10-528-644A-50	Sequence 50, Appl
2	31	9.0	2453	7	US-10-985-205-5	Sequence 5, Appl
3	31	9.0	2428	7	US-10-985-205-2	Sequence 2, Appl
4	31	9.0	2442	7	US-10-985-205-4	Sequence 4, Appl
5	31	9.0	9599	7	US-10-985-205-1	Sequence 1, Appl
6	24	6.9	109	7	US-10-993-625A-32	Sequence 32, Appl
7	19	5.5	1821	7	US-10-750-185-28024	Sequence 28024, A
8	19	5.5	1821	7	US-10-750-623-28024	Sequence 28024, A
9	19	5.5	3646	7	US-10-793-626-4401	Sequence 4401, Ap
10	18	5.2	787	7	US-10-750-185-57960	Sequence 57960, A
11	18	5.2	787	7	US-10-750-623-57960	Sequence 57960, A
12	18	5.2	134174	8	US-11-121-086-99	Sequence 99, Appl
13	17	4.9	23	7	US-10-310-914A-871644	Sequence 871644, A
14	17	4.9	201	7	US-10-995-561-9950	Sequence 9950, Ap
15	17	4.9	201	7	US-10-995-561-9961	Sequence 9961, Ap
16	17	4.9	201	7	US-10-995-561-9968	Sequence 9968, Ap
17	17	4.9	201	7	US-10-995-561-9969	Sequence 9969, Ap
18	17	4.9	201	7	US-10-995-561-9970	Sequence 9970, Ap
19	17	4.9	201	7	US-10-995-561-9972	Sequence 9972, Ap
20	17	4.9	201	7	US-10-995-561-9987	Sequence 9987, Ap
21	17	4.9	201	7	US-10-995-561-9998	Sequence 9998, Ap
22	17	4.9	201	7	US-10-995-561-10005	Sequence 10005, A

ALIGNMENTS

```

RESULT 1
US-10-528-644A-50
; Sequence 50, Application US/10528644A
; Publication No. US20050287117A1
; GENERAL INFORMATION:
; APPLICANT: SUNG, Young Chul
; APPLICANT: YOUN, Jin-Won
; APPLICANT: YANG, Se-Hwan
; APPLICANT: PARK, Su-Hwan
; APPLICANT: LEE, Chang Geun
; TITLE OF INVENTION: A VACCINE ENHANCING THE PROTECTIVE IMMUNITY TO
; HEPATITIS C VIRUS USING PLASMID DNA AND RECOMBINANT ADENOVIRUS
; FILE REFERENCE: 428-1049
; CURRENT APPLICATION NUMBER: US/10/528,644A
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: PCT/KR03/01951
; PRIOR FILING DATE: 2003-11-19
; PRIOR APPLICATION NUMBER: KR 2002-0058712
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: KR 2002-68496
; PRIOR FILING DATE: 2002-11-06
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 50
; LENGTH: 2178
; TYPE: DNA
; ORGANISM: Hepatitis C virus and Herpes Simplex Virus (gDS?ST)
US-10-528-644A-50

Query Match          9.0%; Score 31; DB 7; Length 2178;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      224  CCTGGGGCTACGCCGGGTACCCCTGGGCCCT 254
          |||||
DB      212  CCTGGGGCTACGCCGGGTACCCCTGGGCCCT 242

RESULT 2
US-10-985-205-5
; Sequence 5, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.

```

```
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 2253
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-5

Query Match          9.0%; Score 31; DB 7; Length 2253;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254
    |||||
Db 230 CCTGGGCTCAGCCGGGTACCTTGGCCCT 260

RESULT 3
US-10-985-205-2
; Sequence 2, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 2428
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-2

Query Match          9.0%; Score 31; DB 7; Length 2428;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254
    |||||
Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254

RESULT 4
US-10-985-205-4
; Sequence 4, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 2442
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-4

Query Match          9.0%; Score 31; DB 7; Length 2442;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254
    |||||
Db 230 CCTGGGCTCAGCCGGGTACCTTGGCCCT 260

RESULT 5
US-10-985-205-1
; Sequence 1, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 9599
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-1

Query Match          9.0%; Score 31; DB 7; Length 9599;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254
    |||||
Db 565 CCTGGGCTCAGCCGGGTACCTTGGCCCT 595

RESULT 6
US-10-993-625A-32
; Sequence 32, Application US/10993625A
; Publication No. US20050272053A1
; GENERAL INFORMATION:
; APPLICANT: Allelogic Biosciences, Inc.
; TITLE OF INVENTION: Oligonucleotides labeled with a plurality of fluorophores
; FILE REFERENCE: 62001-2
; CURRENT APPLICATION NUMBER: US/10/993,625A
; CURRENT FILING DATE: 2004-11-19
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 109
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-993-625A-32

Query Match          6.9%; Score 24; DB 7; Length 109;
Best Local Similarity 100.0%; Pred. No. 0.0099;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 82 GGTGATCGTTGGTGGAGTTTAC 105
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Db 78 GGTGATCGTTGGTGGAGTTTAC 101
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RESULT 7
US-10-750-185-28024/c
; Sequence 28024, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28024
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Bovine 19866808081997
US-10-750-185-28024

Query Match      5.5%; Score 19; DB 7; Length 1821;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 23 AAAGAAAAACCAAAAGAAA 41
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Db 943 AAAGAAAAACCAAAAGAAA 925

RESULT 8
US-10-750-623-28024/c
; Sequence 28024, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28024
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Bovine 19866808081997
US-10-750-623-28024

Query Match      5.5%; Score 19; DB 7; Length 1821;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 23 AAAGAAAAACCAAAAGAAA 41
|||||
Db 943 AAAGAAAAACCAAAAGAAA 925

RESULT 9
US-10-750-623-57960/c
; Sequence 57960, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 57960
; LENGTH: 787
; TYPE: DNA
; ORGANISM: Bovine 19866881233146
US-10-750-185-57960

Query Match      5.2%; Score 18; DB 7; Length 787;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 AACCAAAAGAAACACCAA 47
|||||
Db 567 AACCAAAAGAAACACCAA 550

RESULT 11
US-10-750-623-57960/c
; Sequence 57960, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
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Job time : 1386 secs

TEST AVAILABLE COPY

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: January 28, 2006, 04:37:41 ; Search time 21.5 Seconds

(without alignments)

2661.003 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 114

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Xgapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 572060 seqs, 82675679 residues

Word size: 1

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-LIST=45 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:
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2: /cgn2_6/prodata/1/iaa/6 COMB.pcp.*
3: /cgn2_6/prodata/1/iaa/H COMB.pcp.*
4: /cgn2_6/prodata/1/iaa/PCTUS COMB.pcp.*
5: /cgn2_6/prodata/1/iaa/RE COMB.pcp.*
6: /cgn2_6/prodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	114	100.0	115	2	US-08-836-075A-50
2	99	86.8	100	2	US-08-635-886C-233
3	99	86.8	100	2	US-08-974-690C-233
4	98	86.0	115	2	US-09-878-281A-148
5	44	38.6	124	1	US-08-244-116B-15
6	44	38.6	166	2	US-09-878-281A-164
7	44	38.6	191	1	US-08-290-665A-187
8	44	38.6	191	1	US-08-290-665A-188
9	44	38.6	191	1	US-08-290-665A-189
10	44	38.6	191	1	US-08-290-665A-190
11	44	38.6	191	1	US-08-290-665A-191
12	44	38.6	191	1	US-08-290-665A-192

13	44	38.6	191	1	US-08-290-665A-193	Sequence 193, App
14	44	38.6	191	1	US-08-290-665A-195	Sequence 195, App
15	44	38.6	191	1	US-08-290-665A-196	Sequence 196, App
16	44	38.6	191	1	US-08-290-665A-197	Sequence 197, App
17	44	38.6	191	4	PCT-US95-10398-187	Sequence 187, App
18	44	38.6	191	4	PCT-US95-10398-188	Sequence 188, App
19	44	38.6	191	4	PCT-US95-10398-189	Sequence 189, App
20	44	38.6	191	4	PCT-US95-10398-190	Sequence 190, App
21	44	38.6	191	4	PCT-US95-10398-191	Sequence 191, App
22	44	38.6	191	4	PCT-US95-10398-192	Sequence 192, App
23	44	38.6	191	4	PCT-US95-10398-193	Sequence 193, App
24	44	38.6	191	4	PCT-US95-10398-195	Sequence 195, App
25	44	38.6	191	4	PCT-US95-10398-196	Sequence 196, App
26	44	38.6	191	4	PCT-US95-10398-197	Sequence 197, App
27	44	38.6	319	2	US-08-635-886C-217	Sequence 217, App
28	44	38.6	319	2	US-08-635-886C-219	Sequence 219, App
29	44	38.6	319	2	US-08-974-690C-217	Sequence 217, App
30	44	38.6	319	2	US-08-974-690C-219	Sequence 219, App
31	38	33.3	120	2	US-08-931-855B-14	Sequence 14, Appl
32	37	32.5	191	1	US-08-290-665A-194	Sequence 194, App
33	37	32.5	191	4	PCT-US95-10398-194	Sequence 194, App
34	36	31.6	166	2	US-09-878-281A-194	Sequence 194, App
35	34	29.8	42	2	US-08-380-160-10	Sequence 10, Appl
36	34	29.8	46	1	US-08-262-037-27	Sequence 27, Appl
37	34	29.8	56	1	US-08-262-037-28	Sequence 28, Appl
38	34	29.8	61	1	US-08-262-037-29	Sequence 29, Appl
39	34	29.8	89	1	US-07-681-703B-24	Sequence 24, Appl
40	34	29.8	89	1	US-08-407-410B-24	Sequence 24, Appl
41	34	29.8	89	1	US-08-485-500-24	Sequence 24, Appl
42	34	29.8	89	4	PCT-US91-02370-24	Sequence 24, Appl
43	34	29.8	119	1	US-07-681-703B-18	Sequence 18, Appl
44	34	29.8	119	1	US-08-407-410B-18	Sequence 18, Appl
45	34	29.8	119	1	US-08-485-500-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1

US-08-836-075A-50

; Sequence 50, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 1,74e-98 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
QY 1 ATGAGCACACCTTCTTAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTGTGGAGTTACGTGCTACCGCCAGG 120
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCCAACCTCGCGAGT 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGAACCAGAGGCGGTCTCGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProArgAlaValArgLysThrSerGluArgSerGlnProArgSer 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTCGGGTCAGGTCGCTCTGTCCCG 300
DB 81 TyrProTyrProLeuTyrGlyAsnGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGTCTGTGGGCGCAATGACCCCGCGCGAGG 345
DB 101 ArgGlySerArgProSerTyrGlyProAsnAspProArgArgArg 115
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RESULT 2
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635,886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)-(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233

Alignment Scores:
Pred. No.: 1,74e-98 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)
QY 1 ATGAGCACACCTTCTTAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
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Alignment Scores:
Pred. No.: 1,97e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)
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DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTGTGGAGTTACGTGCTACCGCCAGG 120
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCCAACCTCGCGAGT 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGAACCAGAGGCGGTCTCGGCTCAGCCCGG 240
DB 61 ArgArgGlnProLysProArgAlaValArgLysThrSerGluArgSerTyrAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTCGGGTCAGGTCGCTCTGTCCCG 300
DB 81 TyrProTyrProLeuTyrGlyAsnGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
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RESULT 3
US-08-974-690C-233
; Sequence 233, Application US/08974690C
; Patent No. 6613333
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/08/974,690C
; CURRENT FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)-(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233
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Alignment Scores:
Pred. No.: 1,97e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-974-690C-233 (1-100)
QY 1 ATGAGCACACCTTCTTAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
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; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 164
; LENGTH: 166
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-09-878-281A-164

Alignment Scores:
Pred. No.: 5,878-33 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281A-164 (1-166)
QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTATATGGGAATGAGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGTGGGCGAGGTGGCTCTGTCCCGCGCGCTCTCGCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 7
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid

; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTATATGGGAATGAGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGTGGGCGAGGTGGCTCTGTCCCGCGCGCTCTCGCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 8
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
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; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)

QY 214 GAGGGCAGGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGGGCTCTCGCCCGTCTCGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 9
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-189

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)

QY 214 GAGGGCAGGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGGGCTCTCGCCCGTCTCGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 10
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

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Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)

QY 214 GAGGCGAGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGCTGC 273
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTGTCCTCCCGCGCGCTCTCCCGCTCGTGGGCGCCAAATGAC 333
DB 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGGCGCAGG 345
DB 112 ProArgArgArg 115

RESULT 11
US-08-290-665A-191
; Sequence 191, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 191:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: 24
; US-08-290-665A-191

Alignment Scores: 5.75e-33 Length: 191
Pred. No.: 44.00 Matches: 44
Score: 100.00% Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 38.60% Gaps: 0
DB: 1

US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)

QY 214 GAGGCGAGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGCTGC 273
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTGTCCTCCCGCGCGCTCTCCCGCTCGTGGGCGCCAAATGAC 333
DB 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGGCGCAGG 345
DB 112 ProArgArgArg 115

RESULT 12
US-08-290-665A-192
; Sequence 192, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-192

Alignment Scores: 5.75e-33 Length: 191
Pred. No.: 44.00 Matches: 44
Score: 100.00% Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 38.60% Gaps: 0
DB: 1
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US-09-873-224B-147 (1-346) x US-08-290-665A-192 (1-191)

QY 214 GAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGTCGCCCGGGCTCTCGCCCGGTCTCGCCCGGTGGGCGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAep 111
QY 334 CCCCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13

US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6849
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 193:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-193 (1-191)

QY 214 GAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGTCGCCCGGGCTCTCGCCCGGTCTCGCCCGGTGGGCGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAep 111
QY 334 CCCCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 14

US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6849
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-195 (1-191)

QY 214 GAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

GenCore version 5.1.6
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(without alignments)
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Perfect score: 114
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
Result No.	Score	Match	Length	ID	Description
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2	114	100.0	115	3	US-09-899-046-148
3	114	100.0	115	3	US-09-878-281-148
4	99	86.8	100	4	US-10-651-165-233
5	98	86.0	115	3	US-09-873-224-148
6	44	38.6	124	4	US-10-396-964-15
7	44	38.6	166	3	US-09-899-046-164
8	44	38.6	166	3	US-09-878-281-164
9	44	38.6	166	3	US-09-873-224-164
10	44	38.6	189	4	US-10-450-649-9
11	44	38.6	319	4	US-10-651-165-217
12	44	38.6	319	4	US-10-651-165-219

13	38	33.3	120	4	US-10-677-956-14	Sequence 14, Appl
14	38	33.3	130	4	US-10-268-569-19	Sequence 19, Appl
15	38	33.3	161	4	US-10-230-381-5	Sequence 5, Appl
16	38	33.3	191	4	US-10-230-381-53	Sequence 53, Appl
17	38	33.3	191	4	US-10-230-381-54	Sequence 54, Appl
18	38	33.3	191	4	US-10-230-381-55	Sequence 55, Appl
19	38	33.3	193	4	US-10-230-381-50	Sequence 50, Appl
20	38	33.3	193	4	US-10-230-381-51	Sequence 51, Appl
21	38	33.3	193	4	US-10-230-381-52	Sequence 52, Appl
22	38	33.3	209	4	US-10-230-381-3	Sequence 3, Appl
23	38	33.3	209	4	US-10-230-381-7	Sequence 7, Appl
24	38	33.3	373	4	US-10-230-381-11	Sequence 11, Appl
25	38	33.3	373	4	US-10-230-381-13	Sequence 13, Appl
26	38	33.3	373	4	US-10-230-381-15	Sequence 15, Appl
27	36	31.6	166	3	US-09-899-046-194	Sequence 194, App
28	36	31.6	166	3	US-09-878-281-194	Sequence 194, App
29	36	31.6	166	3	US-09-873-224-194	Sequence 194, App
30	34	29.8	113	3	US-09-921-397-78	Sequence 78, Appl
31	34	29.8	120	4	US-10-677-956-8	Sequence 8, Appl
32	34	29.8	120	4	US-10-677-956-10	Sequence 10, Appl
33	34	29.8	120	6	US-11-126-662-2	Sequence 2, Appl
34	34	29.8	122	4	US-10-098-857B-1	Sequence 1, Appl
35	34	29.8	126	3	US-09-899-046-166	Sequence 166, App
36	34	29.8	126	3	US-09-878-281-166	Sequence 166, App
37	34	29.8	126	3	US-09-873-224-166	Sequence 14, Appl
38	34	29.8	151	4	US-10-292-129-14	Sequence 14, Appl
39	34	29.8	182	3	US-09-929-955-2	Sequence 2, Appl
40	34	29.8	182	4	US-10-104-966-2	Sequence 2, Appl
41	34	29.8	182	4	US-10-719-619-2	Sequence 2, Appl
42	34	29.8	182	5	US-10-817-591-2	Sequence 2, Appl
43	34	29.8	190	4	US-10-268-562-1	Sequence 1, Appl
44	34	29.8	190	4	US-10-450-649-7	Sequence 7, Appl
45	34	29.8	191	5	US-10-770-117-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUDYER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: BP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

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; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50

Alignment Scores:
Pred. No.:      8.72e-97      Length:      115
Score:          114.00      Matches:      115
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              3          Gaps:      0

US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCATCCCGCGCGCGCGAACCAGGAGGCGTCTCGGCGCTCAGCCCGG 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGTCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.:      8.72e-97      Length:      115
Score:          114.00      Matches:      115
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              3          Gaps:      0

US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCATCCCGCGCGCGCGAACCAGGAGGCGTCTCGGCGCTCAGCCCGG 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGTCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.:      8.72e-97      Length:      115
Score:          114.00      Matches:      115
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              3          Gaps:      0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)
QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGACGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCATCCCGCGCGCGCGAACCAGGAGGCGTCTCGGCGCTCAGCCCGG 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGTCTCTGTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
```



```
|||||
Db 78 SerProGlyThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlyGlnGlyGlySer 97
|||||
QY 293 TGTCCTCCCGCGGCTCTCCCGCTCGTGGGGCCCAAAATGACCCCGGCGCAGGA 346
|||||
Db 98 CysProArgAlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115
|||||

RESULT 6
US-10-396-964-15
; Sequence 15, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. US20030198946A1th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/396,964
; FILING DATE: 23-MARCH-2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: Yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
;
US-10-396-964-15

Alignment Scores:
Pred. No.: 7,67e-32 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 39.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-396-964-15 (1-124)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 273
|||||
Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGlyCys 87
|||||
```

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QY 274 GGTGGCGCAGGTGGCTCTCTGTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAAAATGAC 333
|||||
Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
|||||
QY 334 CCCC GGCGCAGC 345
|||||
Db 108 ProArgArgArg 111
|||||

RESULT 7
US-09-899-046-164
; Sequence 164, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-09-899-046-164

Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-899-046-164 (1-166)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 273
|||||
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGlyCys 91
|||||
QY 274 GGTGGCGCAGGTGGCTCTCTGTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAAAATGAC 333
|||||
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
|||||
QY 334 CCCC GGCGCAGC 345
|||||
Db 112 ProArgArgArg 115
|||||

RESULT 8
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;
```


;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-164

Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGCGAGGTGGCTCTGTCTCCCGCGGGCTCTCGCCCTCTCGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 9
US-09-873-224-164
; Sequence 164, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

;
; SEQUENCE DESCRIPTION: SEQ ID NO: 164:
US-09-873-224-164

Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-873-224-164 (1-166)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGCGAGGTGGCTCTGTCTCCCGCGGGCTCTCGCCCTCTCGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 10
US-10-450-649-9
; Sequence 9, Application US/10450649
; Publication No. US20040052818A1
; GENERAL INFORMATION:
; APPLICANT: Mandl, Christian
; TITLE OF INVENTION: ATTENUATED LIVE VACCINE
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/10/450,649
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 9
; LENGTH: 189
; TYPE: PRN
; ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.: 7,1e-32 Length: 189
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
QY 274 GGGTGGCGAGGTGGCTCTGTCTCCCGCGGGCTCTCGCCCTCTCGGGGCCCAATGAC 333
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
QY 334 CCCCGCGCGCAGG 345
Db 111 ProArgArgArg 114

RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165

```

; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6,46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)
QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrglyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGCTCTGTCTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBROEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
;

; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.: 6,46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)
QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrglyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGCTCTGTCTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219
```

FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-677-956-14

Alignment Scores:
Pred. No.: 2,85e-26 Length: 120
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 214 GAGGCGAGGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db |||||
QY 72 GUGLYArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
Db |||||
QY 274 GGGTGGCGAGGTGGCTCTGTCCCGCGCGCTCTCGCCCTCGTGGGGCCCA 327
Db |||||
QY 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109
Db |||||

RESULT 14

US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; FILE REFERENCE: CDS-0288
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: US/10/268,569
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 2,81e-26 Length: 130
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 214 GAGGCGAGGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db |||||
QY 72 GUGLYArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
Db |||||
QY 274 GGGTGGCGAGGTGGCTCTGTCCCGCGCGCTCTCGCCCTCGTGGGGCCCA 327
Db |||||
QY 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109
Db |||||

RESULT 15

US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 2,7e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-230-381-5 (1-161)

QY 232 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCAGGGTGGCTC 291
Db |||||
QY 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
Db |||||
QY 292 CTGTCCCGCGCGGTCTCGCCCTCGTGGGGCCCAATGACCCCGGCGCAGG 345
Db |||||
QY 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
Db |||||

Search completed: January 28, 2006, 04:59:47
Job time : 61.5 secs

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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: January 28, 2006, 04:48:38 ; Search time 7.5 Seconds

(without alignments)
999.163 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 114

Sequence: 1 atgagcacactcttaaac.....aatgacccccgcgagga 346

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 75621 seqs, 10829074 residues

Word size: 1

Total number of hits satisfying chosen parameters: 143174

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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Database :

Published Applications AA New.*
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6: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/prodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	29.8	3011	US-10-985-205-3	Sequence 3, Appli
2	25	21.9	2280	US-11-022-562-211	Sequence 211, App
3	7	6.1	19	US-10-485-788A-611	Sequence 611, App
4	7	6.1	20	US-10-485-788A-612	Sequence 612, App
5	7	6.1	35	US-10-816-768-17	Sequence 17, Appl
6	7	6.2	87	US-09-978-360A-519	Sequence 519, App
7	7	6.1	102	US-10-816-768-87	Sequence 87, Appl
8	7	6.1	102	US-10-816-768-88	Sequence 88, Appl
9	7	6.1	203	US-10-816-768-100	Sequence 100, App
10	7	6.1	371	US-11-166-412-66	Sequence 66, Appl

11	7	6.1	372	6	US-10-650-326B-13	Sequence 13, Appl
12	7	6.1	389	7	US-11-088-686-1	Sequence 1, Appli
13	7	6.1	389	7	US-11-088-686-3	Sequence 3, Appli
14	7	6.1	389	7	US-11-088-686-5	Sequence 5, Appli
15	7	6.1	389	7	US-11-088-686-7	Sequence 7, Appli
16	7	6.1	389	7	US-11-088-686-9	Sequence 9, Appli
17	7	6.1	389	7	US-11-088-686-11	Sequence 11, Appl
18	7	6.1	389	7	US-11-088-686-13	Sequence 13, Appl
19	7	6.2	867	6	US-10-725-475-19	Sequence 19, Appl
20	7	6.1	914	7	US-11-052-554A-160	Sequence 160, App
21	7	6.1	923	7	US-11-052-554A-147	Sequence 147, App
22	7	6.1	943	7	US-11-024-959-487	Sequence 487, App
23	7	6.1	1306	7	US-11-052-554A-139	Sequence 139, App
24	7	6.1	1329	7	US-11-052-554A-136	Sequence 136, App
25	7	6.2	1377	6	US-10-821-234-1070	Sequence 1070, Ap
26	7	6.1	1901	7	US-11-052-554A-135	Sequence 135, App
27	7	6.1	2647	6	US-10-821-234-1303	Sequence 1303, Ap
28	6	5.3	15	6	US-10-962-145C-1	Sequence 1, Appli
29	6	5.3	23	7	US-11-152-366-269	Sequence 269, App
30	6	5.3	36	6	US-10-467-657-3288	Sequence 3288, Ap
31	6	5.3	37	7	US-11-214-199-70	Sequence 70, Appl
32	6	5.3	38	6	US-10-986-501-354	Sequence 354, App
33	6	5.3	38	7	US-11-214-371-8	Sequence 8, Appli
34	6	5.3	45	6	US-10-957-351-92	Sequence 92, Appl
35	6	5.3	50	6	US-10-467-657-1472	Sequence 1472, Ap
36	6	5.3	58	6	US-10-613-744-33	Sequence 33, Appl
37	6	5.3	103	5	US-09-978-360A-767	Sequence 767, App
38	6	5.3	114	7	US-11-124-368A-317	Sequence 317, App
39	6	5.3	114	7	US-11-124-368A-319	Sequence 319, App
40	6	5.3	117	6	US-10-821-234-1362	Sequence 1362, Ap
41	6	5.3	123	6	US-10-793-626-430	Sequence 430, App
42	6	5.3	132	6	US-10-467-657-6430	Sequence 6430, Ap
43	6	5.3	153	6	US-10-467-657-1704	Sequence 1704, Ap
44	6	5.3	158	6	US-10-510-386-128	Sequence 128, App
45	6	5.3	163	6	US-10-131-826A-504	Sequence 504, App

ALIGNMENTS

RESULT 1

US-10-985-205-3

; Sequence 3, Application US/10985205

; Publication NO. US20050266400A1

; GENERAL INFORMATION:

; APPLICANT: Dumonceaux, Julie

; APPLICANT: Cormier, Emmanuel G.

; APPLICANT: Gardner, Jason P.

; APPLICANT: Draglic, Tatjana

; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS

; FILE REFERENCE: 71242-A/JPW/AJD

; CURRENT APPLICATION NUMBER: US/10/985,205

; PRIOR FILING DATE: 2004-11-09

; PRIOR APPLICATION NUMBER: US 60/519,536

; NUMBER OF SEQ ID NOS: 20

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 3

; LENGTH: 3011

; TYPE: PRT

; ORGANISM: Hepatitis C virus

US-10-985-205-3

Alignment Scores:

Pred. No.: 7.2e-26 Length: 3011
Score: 34.00 Matches: 34
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 29.8% Indels: 0
DB: 6 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-985-205-3 (1-3011)

QY 226 TGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTCGGGTGGCAGG 285

;; PRIOR FILING DATE: 1999-02-09
;; Remaining Prior Application data removed - See File Wrapper or PALM.

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US-09-873-224B-147 (1-346) x US-10-816-768-88 (1-102)
QY 294 GTCCCGCGCGGCTCTCGCCC 314
Db 68 ValProAlaArgLeuSerPro 74
RESULT 9
US-10-816-768-100
; Sequence 100, Application US/10816768
; Publication No. US20050250936A1
; GENERAL INFORMATION:
; APPLICANT: Oppermann, Hermann
; APPLICANT: Tai, Mei-Sheng
; APPLICANT: McCartney, John
; TITLE OF INVENTION: Modified TGF-beta Superfamily Proteins
; FILE REFERENCE: STK-075
; CURRENT APPLICATION NUMBER: US/10/816,768
; CURRENT FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: Patentin version 2.0
; SEQ ID NO 100
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: H2528
US-10-816-768-100
Alignment Scores:
Pred. No.: 23.7 Length: 203
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 6 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-816-768-100 (1-203)
QY 294 GTCCCGCGCGGCTCTCGCCC 314
Db 169 ValProAlaArgLeuSerPro 175
RESULT 10
US-11-166-412-66
; Sequence 66, Application US/11166412
; Publication No. US20060014231A1
; GENERAL INFORMATION:
; APPLICANT: Van Rompaey, Luc
; APPLICANT: Tomme, Peter H. M.
; TITLE OF INVENTION: Methods and Compositions To Promote Bone Homeostasis
; FILE REFERENCE: P27,927-D USA
; CURRENT APPLICATION NUMBER: US/11/166,412
; CURRENT FILING DATE: 2005-06-24
; PRIOR APPLICATION NUMBER: 60/582,704
; PRIOR FILING DATE: 2004-06-24
; PRIOR APPLICATION NUMBER: 60/630,449
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/673,206
; PRIOR FILING DATE: 2005-04-20
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 66
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-166-412-66
Alignment Scores:
Pred. No.: 20.4 Length: 371
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0
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DB: 7 Gaps: 0
US-09-873-224B-147 (1-346) x US-11-166-412-66 (1-371)
QY 302 GCGGCTCTCGCGCGCTCGTGGG 322
Db 60 AlaAlaLeuAlaArgArgGly 66
RESULT 11
US-10-650-326B-13
; Sequence 13, Application US/10650326B
; Publication No. US20050272649A1
; GENERAL INFORMATION:
; APPLICANT: Hruska, Keith A.
; APPLICANT: McCartney, John E.
; APPLICANT: Charette, Marc F.
; TITLE OF INVENTION: CONJOINT ADMINISTRATION OF MORPHOGENS AND ACE INHIBITORS IN
; FILE REFERENCE: TREATMENT OF CHRONIC RENAL FAILURE
; FILE REFERENCE: JGU-P01-599
; CURRENT APPLICATION NUMBER: US/10/650,326B
; CURRENT FILING DATE: 2003-08-28
; PRIOR APPLICATION NUMBER: 60/406,431
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 13
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-650-326B-13
Alignment Scores:
Pred. No.: 20.4 Length: 372
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 6 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-650-326B-13 (1-372)
QY 294 GTCCCGCGCGGCTCTCGCCC 314
Db 338 ValProAlaArgLeuSerPro 344
RESULT 12
US-11-088-686-1
; Sequence 1, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-1
Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0
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US-09-873-224B-147 (1-346) x US-11-088-686-1 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
| | | | | | | | | | | | | | | | | |
Db 5 ArgValProLeuAlaProIle 11

RESULT 13

US-11-088-686-3
; Sequence 3, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-3

Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-3 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
| | | | | | | | | | | | | | | | | |
Db 5 ArgValProLeuAlaProIle 11

RESULT 14

US-11-088-686-5
; Sequence 5, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-5

Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-5 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
| | | | | | | | | | | | | | | | | |
Db 5 ArgValProLeuAlaProIle 11

RESULT 15

US-11-088-686-7
; Sequence 7, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-7

Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-7 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
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Db 5 ArgValProLeuAlaProIle 11

Search completed: January 28, 2006, 05:00:13
Job time : 9.5 secs

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